TOSHIBA

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SERVICE MANUAL

LCD Color Television

32WLT58
37WLT58

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TABLE OF CONTENTS

SERVICE SAFETY PRECAUTIONS 3
HANDLING THE LCD MODULE 5
SERVICE MODE 7
LOCATION OF CONTROLS 12
LAYOUT OF MAJOR BOARDS 14
MECHANICAL DISASSEMBLY 15
EXPLODED VIEWS 17
PACKING DISASSEMBLY 19
CHASSIS AND CABINET REPLACEMENT PARTS LIST 20
PC BOARDS TOP & BOTTOM VIEW 30
CIRCUIT BLOCK DIAGRAM 46
SPECIFICATIONS 50
APPENDIX:
SCHEMATIC DIAGRAM

⚠ SERVICE SAFETY PRECAUTIONS

- The caution items shown here describe major safety issues and should always be observed.
- The meanings of the various indications are as follows.

⚠ **WARNING**	Indicates a hypothetical situation in which service personnel and nearby third parties, or even end users due to a product defect after the service operation is completed, could possibly be in danger of injury or even death in the event of operational error.
⚠ **CAUTION**	Indicates a hypothetical situation in which service personnel and nearby third parties, or even end users after the service operation is completed, could possibly be in danger of injury, or where there could be physical damage in the event of operational error.

* Physical damage means major damage to a home, furnishings and other possessions.

Examples of marks

SHOCK HAZARD	The △ indicates caution (including danger and warning). The actual meaning of this caution is indicated inside the △ or nearby illustrations or text. The example shown to the left indicates the danger of "electrical shock".
PROHIBIT DISASSEMBLING	The ⃠ indicates a forbidden action. The actual meaning of this caution is indicated inside the ⃠ or nearby illustrations or text. The example shown to the left indicates that disassembly is forbidden.
UNPLUG	The ● indicates a forced action (an action that must be performed). The actual meaning of this forced action is indicated by ● or nearby illustrations or text. The example shown to the left indicates that the power plug must be disconnected.

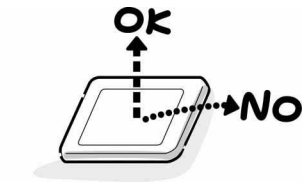
	⚠ WARNING
KEEP CHILDREN AWAY	• Always advise users to keep children away. There is danger of injury to children from tools, disassembled products, etc.
UNPLUG	• Always disconnect the power plug before starting work whenever power is not required. Failure to disconnect the power plug before starting work can result in electrical shock.
SHOCK HAZARD	• Depending on the model, use an insulation transformer or wear gloves when servicing with the power on, and disconnect the power plug to avoid electrical shock when replacing parts. In some cases, alternating current is also impressed in the chassis, so electrical shock is possible if the chassis is contacted with the power on.
USE SPECIFIED PARTS	• Always use the replacement parts specified for the particular model when making repairs. The parts used in products have the necessary safety characteristics such as inflammability, voltage resistance, etc.; therefore, use only replacement parts that have these same characteristics. Use only the specified parts when the ⚠ mark is included in a circuit diagram or parts list.
CAUTION FOR WIRING	• Parts mounting and routing of the wiring should be the same as that used originally. For safety purposes, insulating materials such as tubing or tape is sometimes used and printed circuit boards are sometimes mounted floating. Also make sure that wiring is routed and clamped to avoid parts that generate heat and which use high voltage. Always follow the original scheme.
CAUTION FOR ASSEMBLING / WIRING	• After a repair has been completed, reassemble all disassembled parts, and route and reconnect the wiring, in accordance with the original scheme. Do not allow internal wiring to be pinched by cabinets, panels, etc. Any error in reassembly or wiring can result in electrical leakage, flame, etc., and may be hazardous.
CHECK INSULATION RESISTANCE	• After completing the work, disconnect the power plug from the outlet, remove the antenna, turn on the power switch. Then, use a 500V insulation resistance meter to check the insulation resistance of the antenna terminal, other metallic parts and between the prongs of the power plug to make sure that the insulation resistance is 1M Ω or more. The set will require inspection and repair if the insulation resistance is below this value.
PROHIBIT REMODELING	• Never remodel the product in any way. Remodeling can result in improper operation, malfunction, or electrical leakage and flame, which may be hazardous

HANDLING THE LCD MODULE

Safety Precautions
In the event that the screen is damaged or the liquid crystal (fluid) leaks, do not breathe in or drink this fluid. Also, never touch this fluid.
Such actions could cause toxicity or skin irritation. If this fluid should enter the mouth, rinse the mouth thoroughly with water. If the fluid should contact the skin or clothing, wipe off with alcohol, etc., and rinse thoroughly with water. If the fluid should enter the eyes, immediately rinse the eyes thoroughly with running water.

Precautions for Handling the LCD Module
The LCD module can easily be damaged during disassembly or reassembly; therefore, always observe the following precautions when handling the module.

1. When attaching the LCD module to the LCD cover, position it appropriately and fasten at the position where the display can be viewed most conveniently.



2. Carefully align the holes at all four corners of the LCD module with the corresponding holes in the LCD cover and fasten with screws. Do not strongly push on the module because any impact can adversely affect the performance. Also use caution when handling the polarized screen because it can easily be damaged.

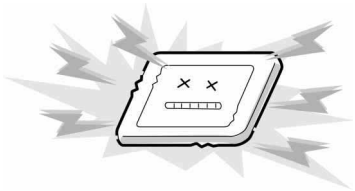
CAUTION	The metal edges of the LCD module are sharp, so use caution to avoid injury.

3. If the panel surface becomes soiled, wipe with cotton or a soft cloth. If this does not remove the soiling, breathe on the surface and then wipe again.
If the panel surface is extremely solied, use a CRT cleaner as a cleaner. Wipe off the panel surface by drop the cleaner on the cloth. Do not drop the cleaner on the panel. Pay attention not to scratch the panel surface.

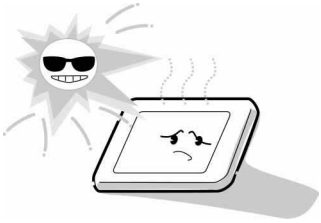
4. Leaving water or other fluids on the panel screen for an extended period of time can result in discoloration or stripes. Immediately remove any type of fluid from the screen.

5. Glass is used in the panel, so do not drop or strike with hard objects. Such actions can damage the panel.

6. CMOS-LSI circuitry is used in the LCD module, so avoid damage due to static electricity. When handling the module, use a wrist ground or anchor ground.

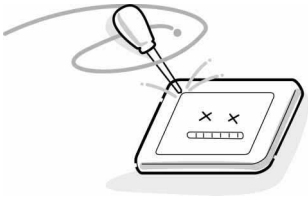


7. Do not expose the LCD module to direct sunlight or strong ultraviolet rays for an extended period of time.

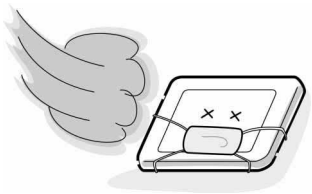


8. Do not store the LCD module below the temperature conditions described in the specifications. Failure to do so could result in freezing of the liquid crystal due to cold air or loss of resilience or other damage.

9. Do not disassemble the LCD module. Such actions could result in improper operation.



10. When transporting the LCD module, do not use packing containing epoxy resin (amine) or silicon resin (alcohol or oxim). The gas generated by these materials can cause loss of polarity.



SERVICE MODE

1. ENTERING SERVICE MODE

1) Press 🔇 button once on Remote Control.

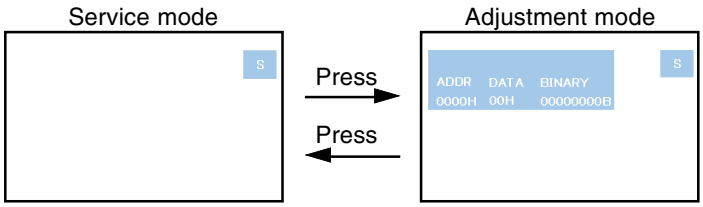
2) Press 🔇 button again and keep pressing.

3) While pressing the 🔇 button, press MENU button on TV set.

(Service mode display)

2. DISPLAYING THE ADJUSTMENT MENU

1) Press MENU button on TV.



3. KEY FUNCTION IN THE SERVICE MODE

The following key entry during display of adjustment menu provides special functions.

Test signal selection :	⊸⊕ button (on Remote)
Selection of the adjustment items :	Channel ▲/▼ (on TV or Remote)
Change of the data value :	Volume ◿ +/– (on TV or Remote)
Adjustment menu mode ON/OFF :	MENU button (on TV)
Initialization of the memory :	CALL + Channel button on TV (▲)
Reset the count of operating protect circuit to “00”:	CALL + Channel button on TV (▼)
“RCUT” selection :	1 button
“GCUT” selection :	2 button
“BCUT” selection :	3 button
“SCNT” selection :	4 button
“COLP” selection :	5 button – – – – – Color thickness correction
“TNTC” selection :	6 button
Automatic A/D Adjustment(PC, Component) :	7 button
Self diagnostic display ON/OFF :	9 button

note: Displayed differently as shown below, depending on the setting of the receiving color system.
COLP (PAL)
COLC (NTSC)
COLS (SECAM)

CAUTION : Never try to perform initialization unless you have changed the memory IC.

4. SELECTING THE ADJUSTING ITEMS

1) Every pressing of CHANNEL ▲ button in the service mode changes the adjustment items in the order of table-2. (▼ button for reverse order)

5. ADJUSTING THE DATA

1) Pressing of VOLUME +/– button will change the value of data in the range from 00H to FFH. The variable range depends on the adjusting item.

6. EXIT FROM SERVICE MODE

1) Pressing POWER button to turn off the TV once.

■ INITIALIZATION OF MEMORY DATA

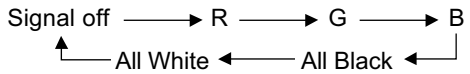
After replacing EEPROM IC, the following initialization is required.

1. Enter the service mode, then select any register item.
2. Press and hold the CALL button on the Remote, then press the CHANNEL ▲ button on the TV. The initialization of EEPROM IC has been complated.
3. Check the picture carefully. If necessary, adjust any adjustment item above. Perform “Auto tune” on the owner’s manual.

CAUTION: Never attempt to initialize the data unless EEPROM IC has been replaced.

7. TEST SIGNAL SELECTION

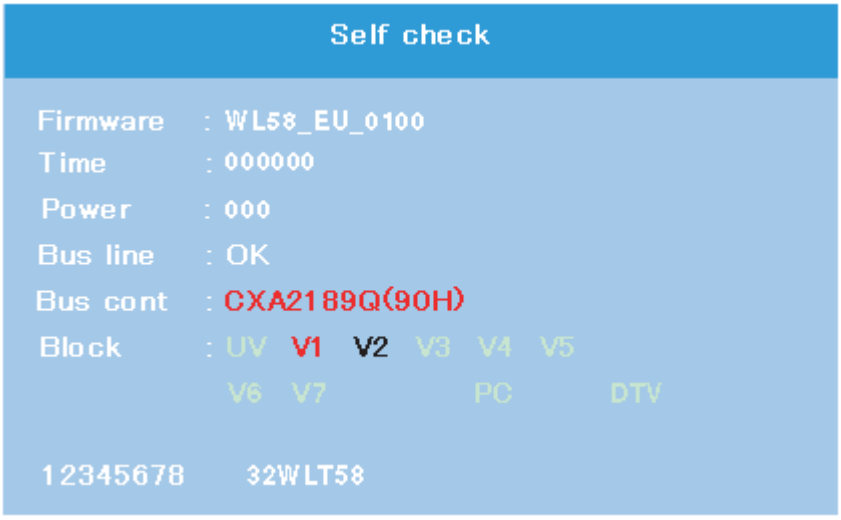
1) Every pressing of ⊖ button on the Remote Control changes the built-in test patterns on screen as described below in SERVICE MODE.



Signals	Picture
• Red raster • Green raster • Blue raster • All Black • All White	

8. SELF DIAGNOSTIC FUNCTION

1) Press “9” button on Remote Control during display of adjustment menu in the service mode.
   The diagnosis will begin to check if interface among IC’s is executed properly.
2) During diagnosis, the following displays are shown.


Self check
① Firmware : WL58_EU_0100
② Time : 000000
③ Power : 000
④ Bus line : OK
⑤ Bus cont : CXA2189Q(90H)
⑥ Block : UV V1 V2 V3 V4 V5
V6 V7 PC DTV
12345678 32WLT58
⑦ ⑧

① Firmware :
Version information of microprocessor
In case of file name : WL58_EU and Version : 0100 indicates[WL58_EU_0100].

② Time : Total hour of turn the TV on. (Unit : H)

③ Power : Operation number of protecting circuit ----"000" is normal.
When indication is other than "000", overcurrent apt to flow, and circuit parts may possibly be damaged.

④ Bus line : --"OK" is normal
"SCL-GND"(Red indication) : SCL-GND short circuit
"SDA-GND"(Red indication) : SDA-GND short circuit
"SCL-SDA"(Red indication) : SCL-SDA short circuit

⑤ Bus cont : --- "OK" is normal.
NG is abnormal(Red indication), when
type name of semiconductor indicates.

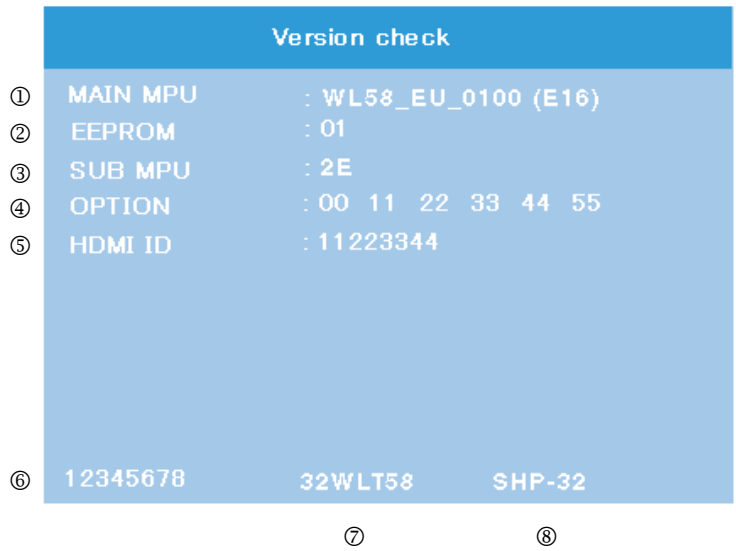
⑥ Block
UV : TV reception mode
V1 : SCART1(EXT1) input mode (→1)
V2 : SCART2(EXT2) input mode (→2)
V3 : SCART3(EXT3) input mode (→3)
V4 : COMPONENT VIDEO input mode (→4C)
V5 : Side COMPOSITE input mode (→5)
V6 : HDMI 1 mode
V7 : HDMI 2 mode
PC : Personal Computer input mode
DTV : DTV reception mode

⑦ 8 digit : CD number

⑧ Model name (7 digit)

9. VERSION CHECK MODE

1) Press “9” button twice on Remote Control during display of adjustment menu in the service mode. The version of main MPU will begin to check.
2) During Version Check, the following displays are shown.



① MAIN MPU :
Version information of microprocessor
In case of file name : WL58_EU, Version 0100 for Code Program Version and (E16) for OSD Version indicates [WL58_EU_0100(E16)]

② EEPROM :
Version information of EEPROM : Display 1 byte data.

③ SUB MPU :
Version information of SUB MPU : Display 1 byte data.

④ OPTION :
Option information : Display six numbers of 1 byte data.

⑤ HDMI ID :
HDMI ID information : Display 4 byte data.

⑥ CD number : Display 8 digit number

⑦ Model name : Display 7 digit number

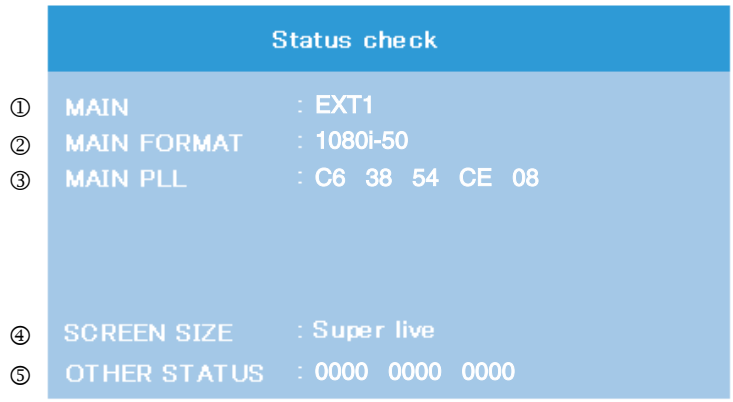
⑧ Panel Vender information display
The following Panel Vender and screen size are displayed.

Panel	Panel Vender	Screen Size(Inch)
LCD	LPL	-23
	SHP	-26
	CMO	-32
		-37
		-42
PDP	LG	-42

Example : SHP-32 indicates that Vender is SHP and Screen Size is 32 inch.

10. STATUS CHECK MODE

1) Press “9” button thrice on Remote Control during display of adjustment menu in the service mode. The status of this model will begin to check.
2) During Status Check, the following displays are shown.


Status check
① MAIN : EXT1
② MAIN FORMAT : 1080i-50
③ MAIN PLL : C6 38 54 CE 08
④ SCREEN SIZE : Super live
⑤ OTHER STATUS : 0000 0000 0000

① MAIN :
Main source information :
Display RF position number (0 - 99) on the main screen, or Input Source (EXT1/2/3/HDMI etc.)

② MAIN FORMAT :
Display Video and PC format information

③ MAIN PLL :
Main PLL information : Display five numbers of 1 byte data.

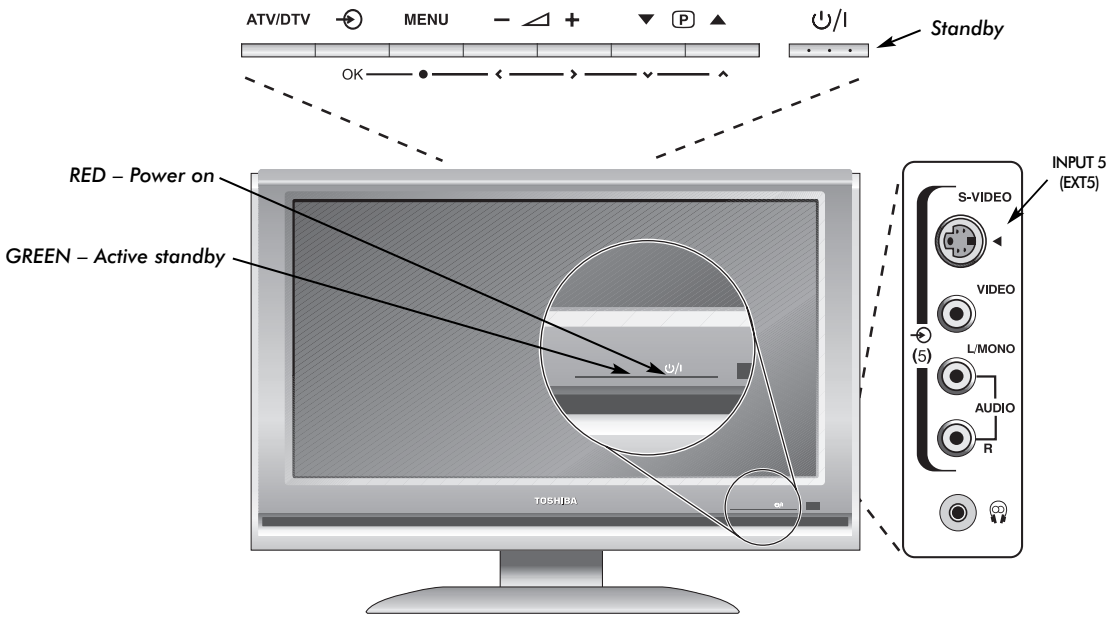
④ SCREEN SIZE :
Display the screen size as follows.

Super live
Cinema
Subtitle
14:9
Wide
4:3

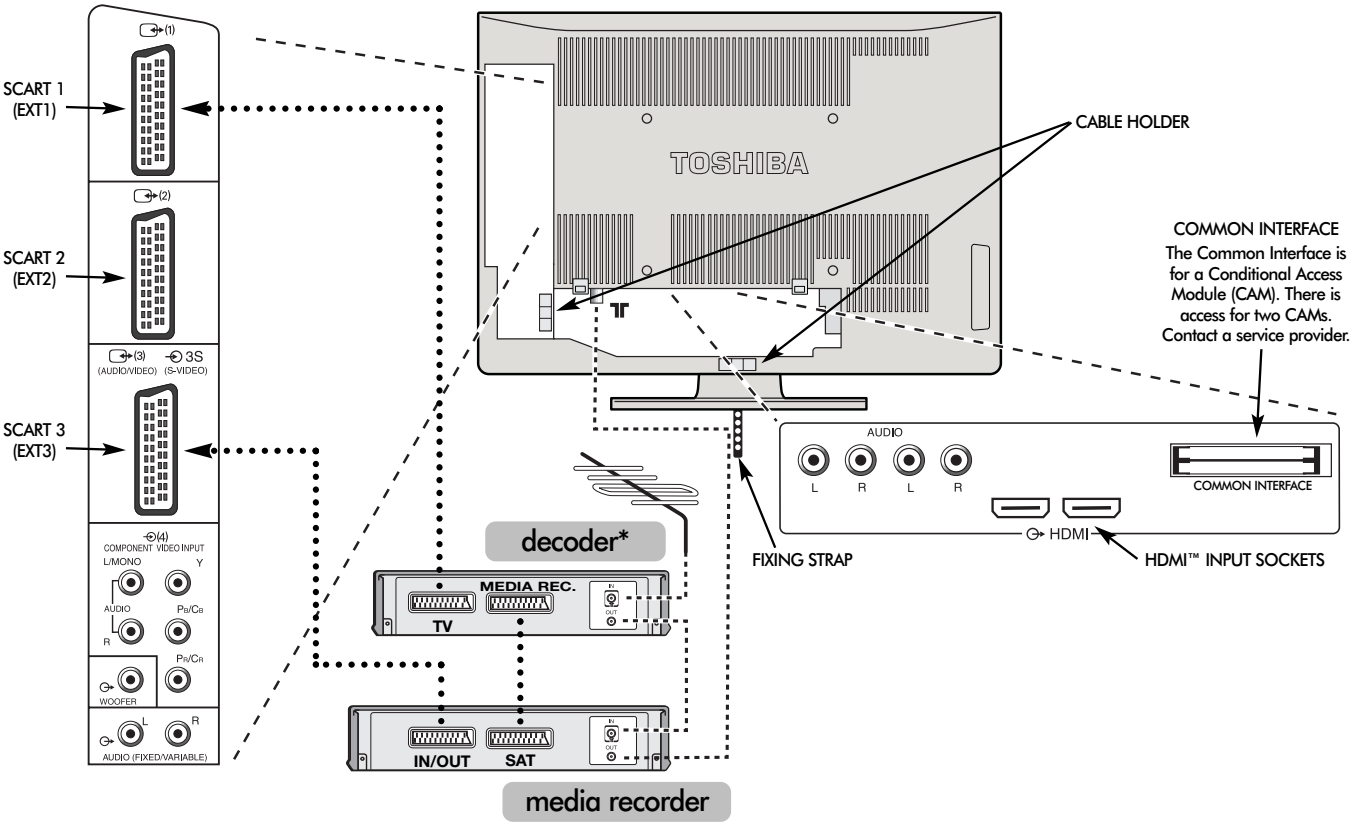
⑤ OTHER STATUS :
Other status information : Display three numbers of 2 byte data.

LOCATION OF CONTROLS

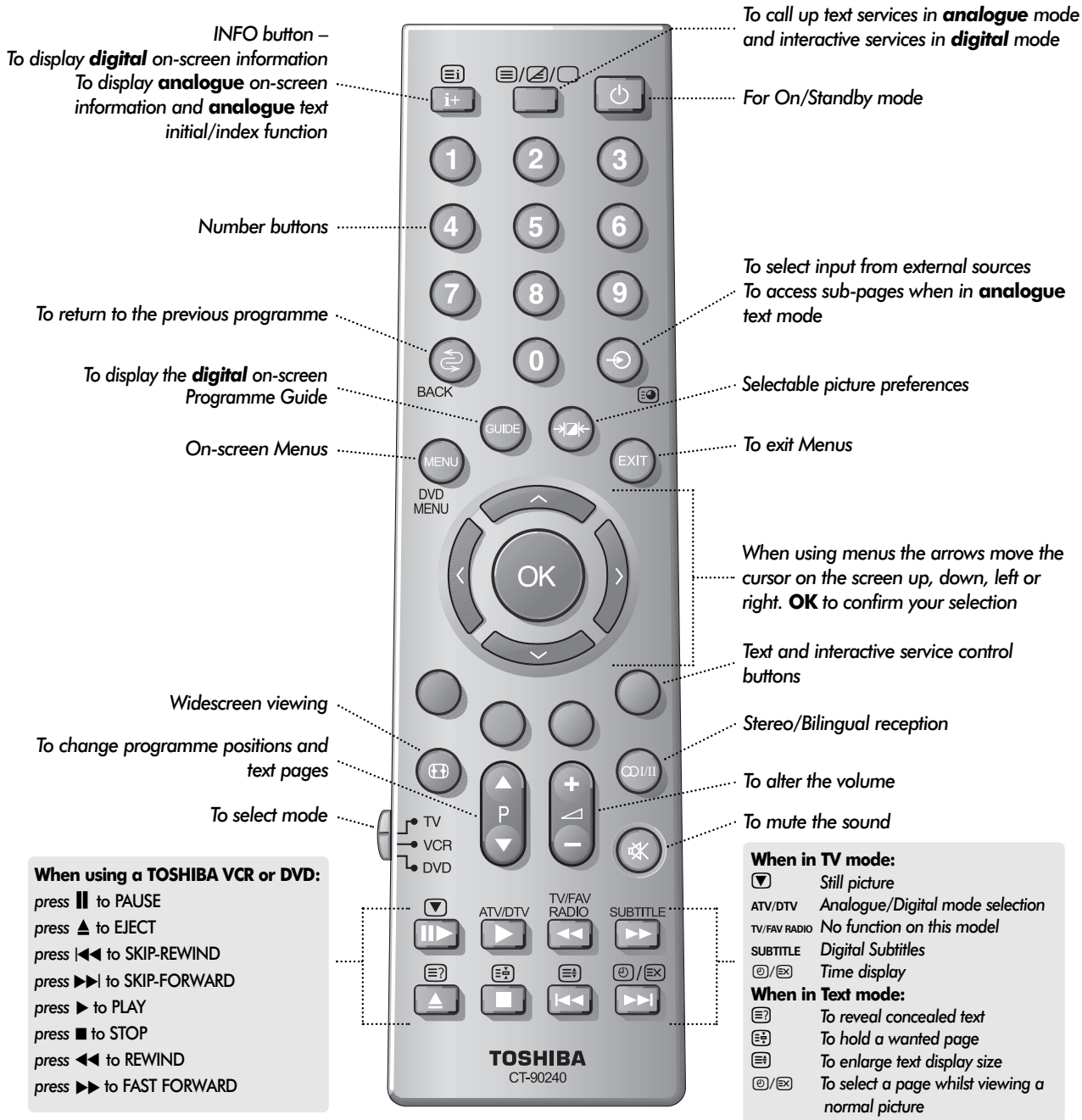
Front



Back



Remote control



When using a TOSHIBA VCR or DVD:

press ⏸ to PAUSE
press ⏏ to EJECT
press ⏮ to SKIP-REWIND
press ⏭ to SKIP-FORWARD
press ▶ to PLAY
press ■ to STOP
press ◀◀ to REWIND
press ▶▶ to FAST FORWARD

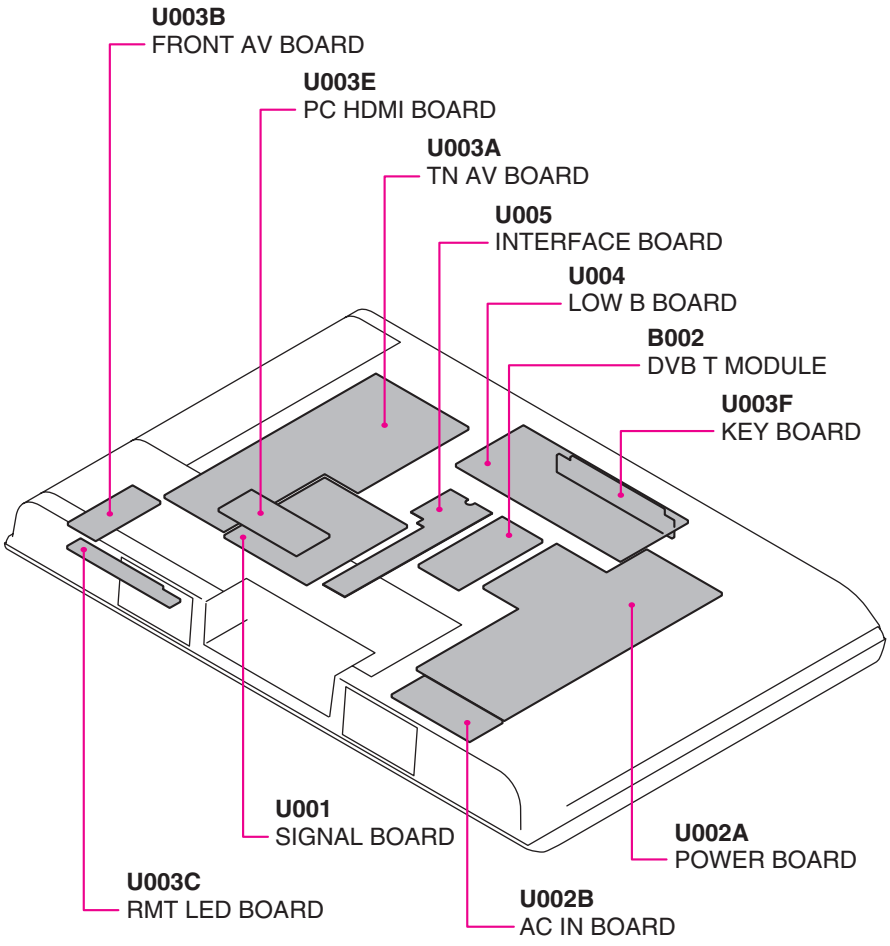
When in TV mode:

▼	*Still picture*
ATV/DTV	*Analogue/Digital mode selection*
TV/FAV RADIO	*No function on this model*
SUBTITLE	*Digital Subtitles*
⏲/EX	*Time display*

When in Text mode:

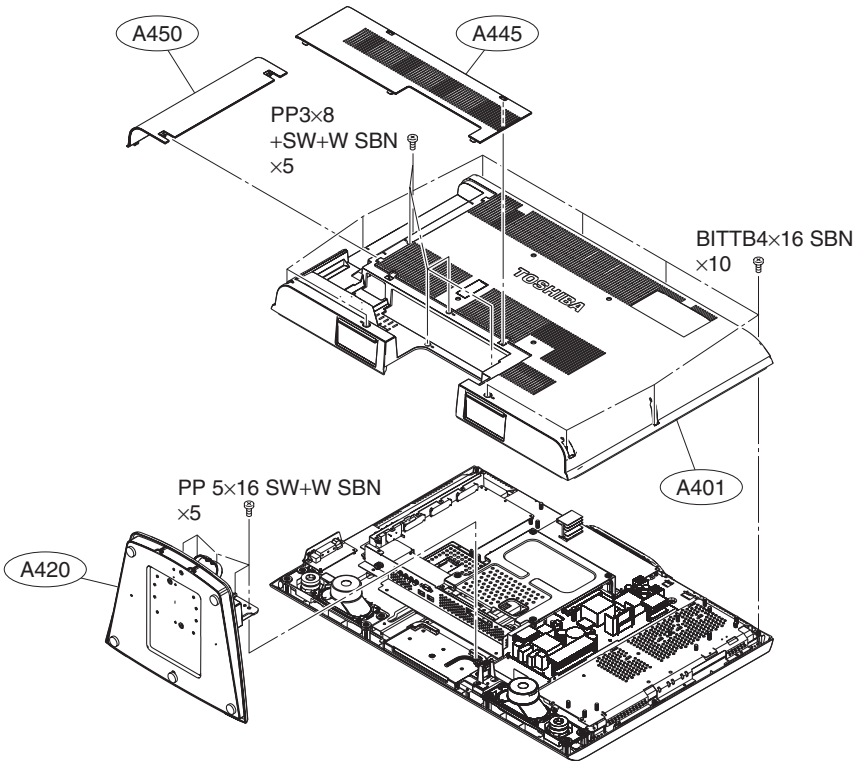
?	*To reveal concealed text*
⇆	*To hold a wanted page*
↕	*To enlarge text display size*
⏲/EX	*To select a page whilst viewing a normal picture*

LAYOUT OF MAJOR BOARDS

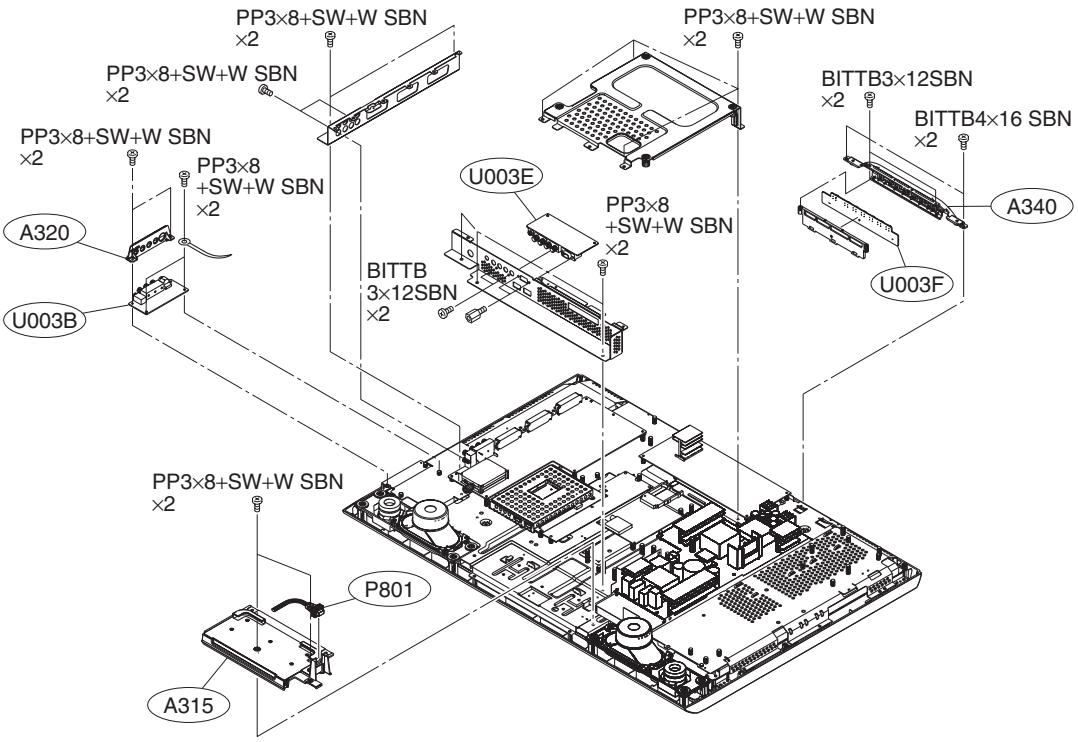


MECHANICAL DISASSEMBLY
(Representative of 32WLT58)

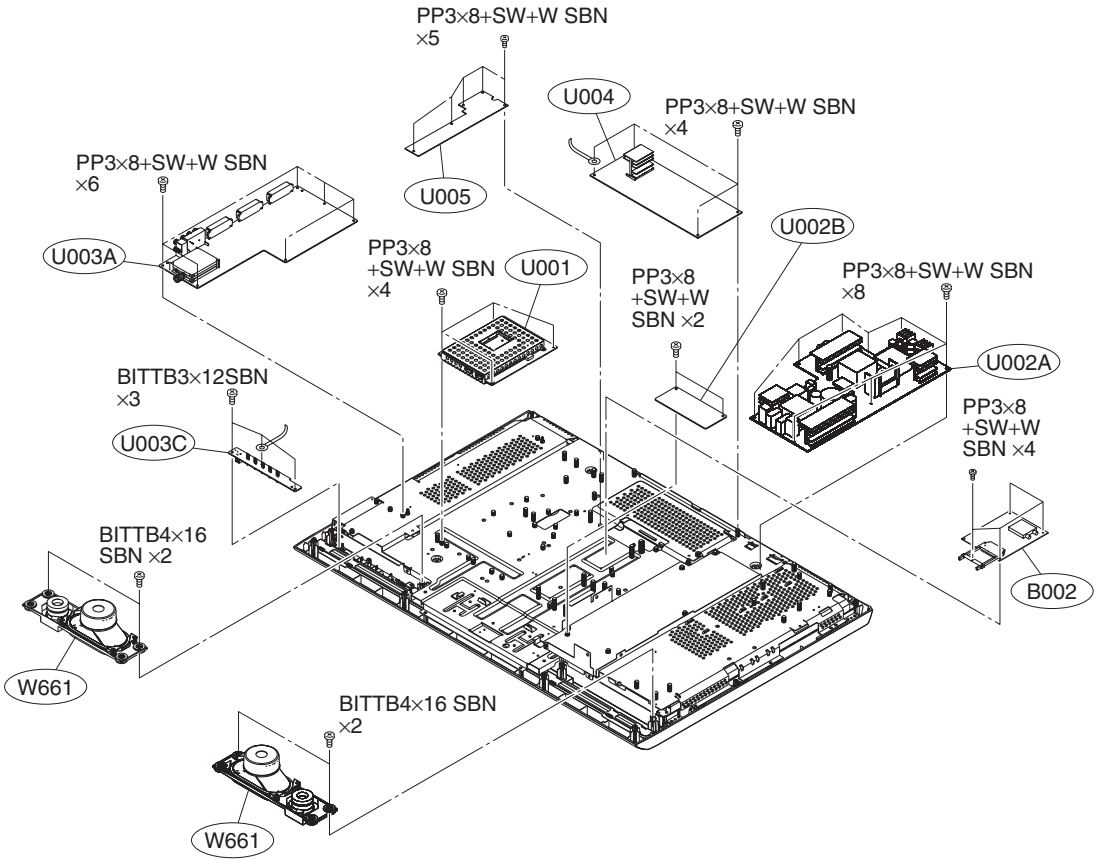
1. Remove the stand (foot) and back cover.



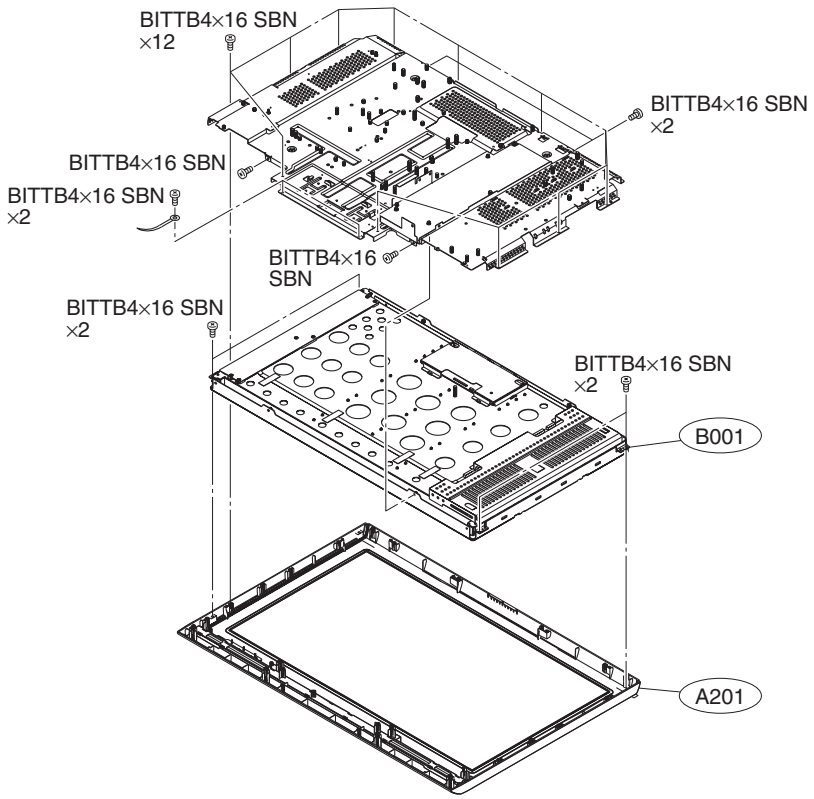
2. Remove the boards (FRONT AV,PC HDMI, KEY) and back center cover.



3. Remove the boards (POWER, AC-IN, SIGNAL, LOW B, TN AV, RMT LED, INTERFACE, DVB T MODULE) and speakers.

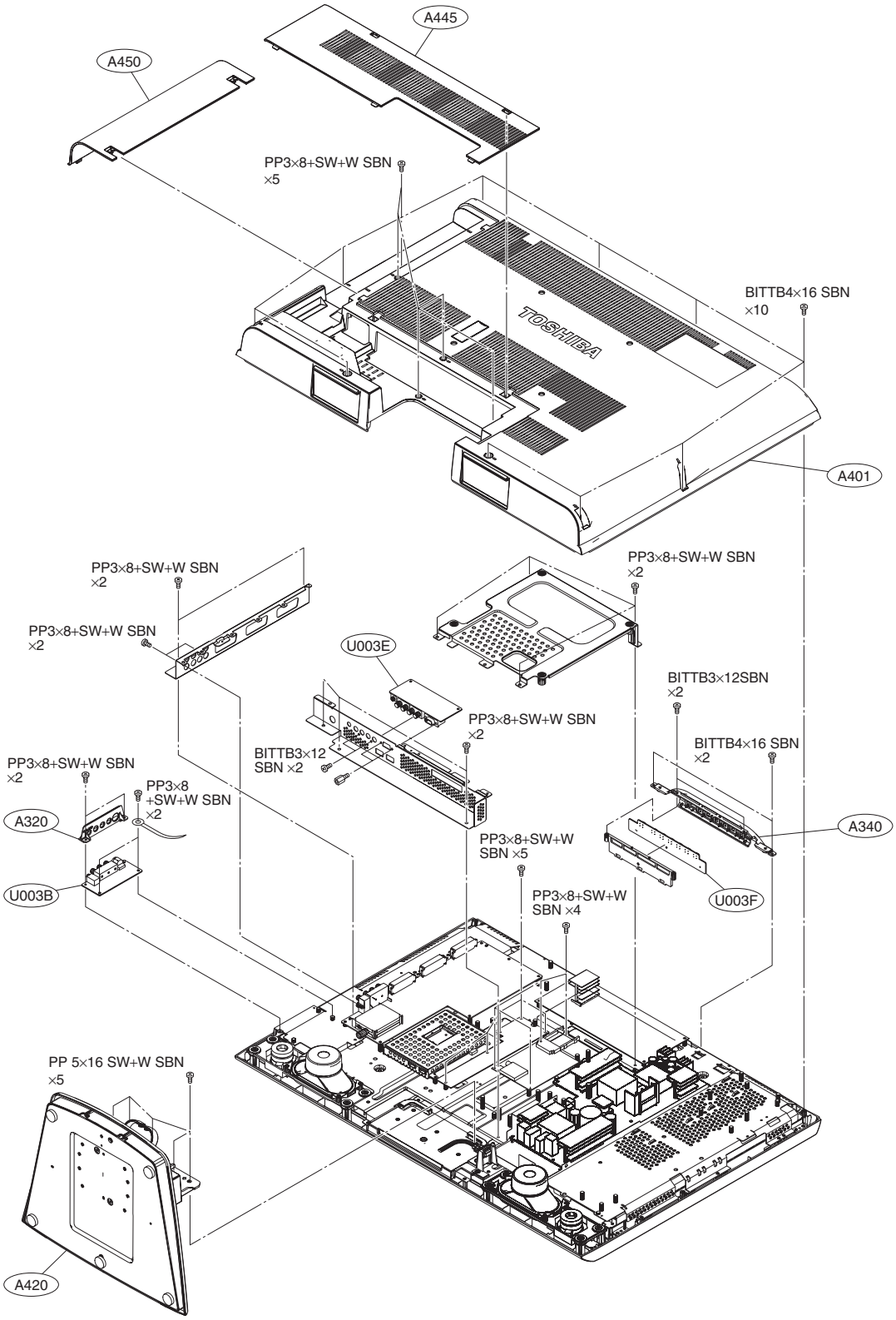


4. Remove the display.

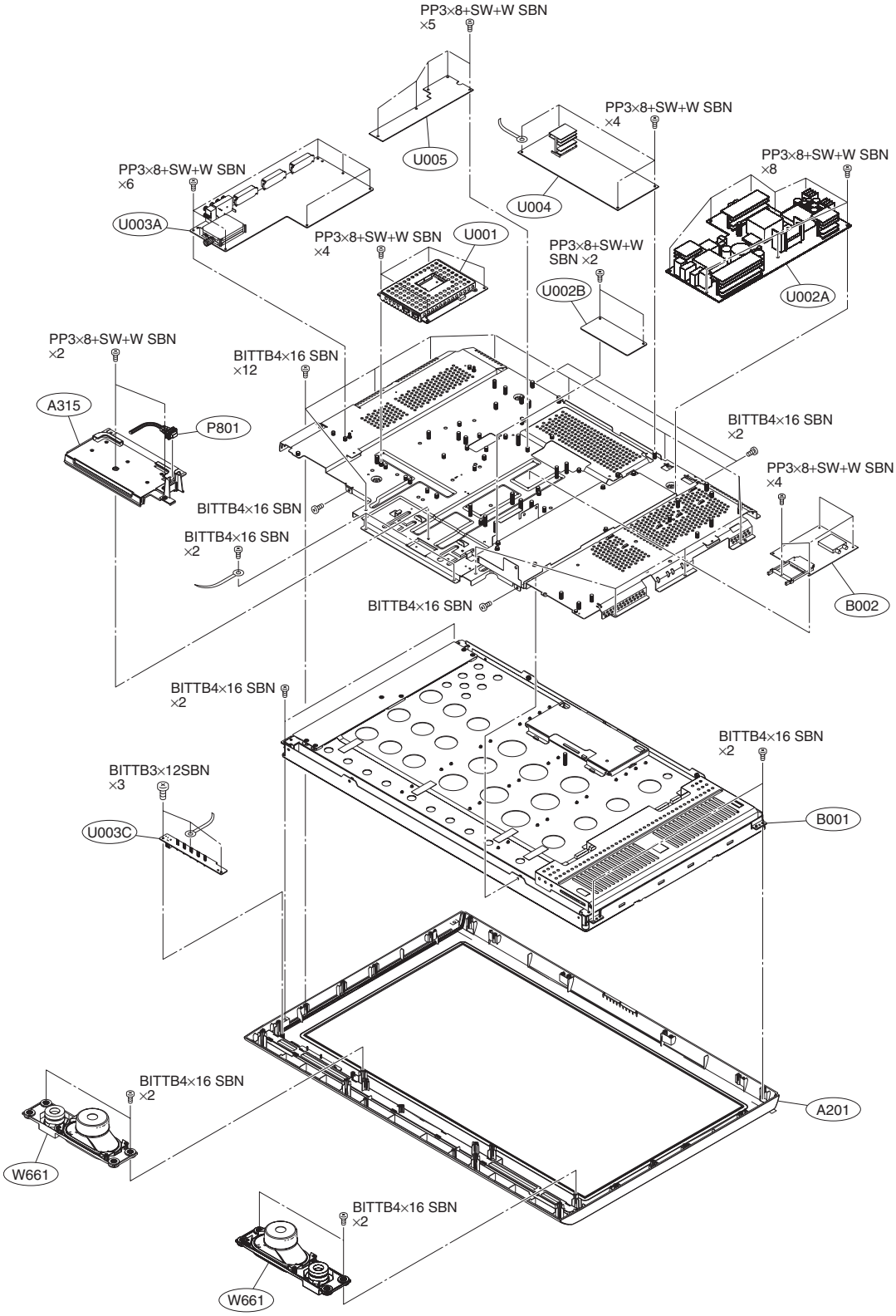


EXPLODED VIEWS
(Representative of 32WLT58)

1. Chassis Block

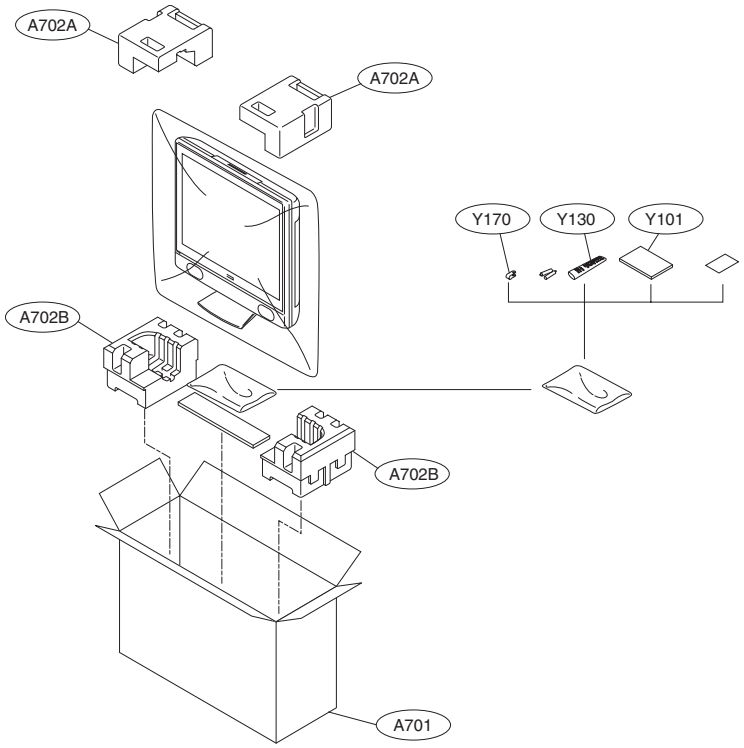


2. Main Block

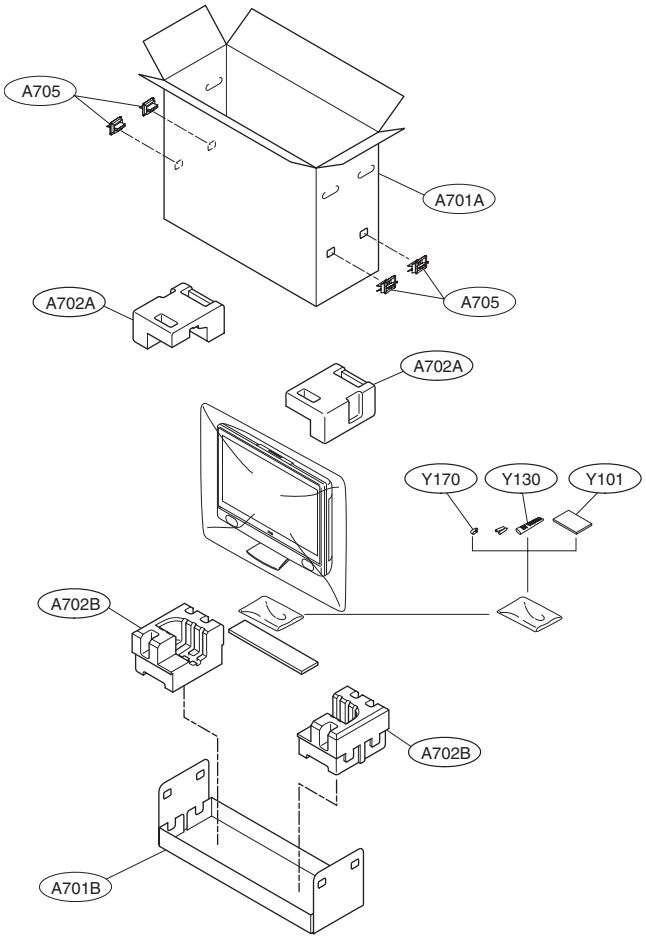

PP3×8+SW+W SBN ×5
U005
PP3×8+SW+W SBN ×4
U004
PP3×8+SW+W SBN ×8
U002A
PP3×8+SW+W SBN ×6
U003A
PP3×8+SW+W SBN ×4
U001
PP3×8+SW+W SBN ×2
U002B
PP3×8+SW+W SBN ×2
A315
P801
BITTB4×16 SBN ×12
BITTB4×16 SBN ×2
PP3×8+SW+W SBN ×4
B002
BITTB4×16 SBN
BITTB4×16 SBN ×2
BITTB4×16 SBN
BITTB4×16 SBN ×2
BITTB4×16 SBN ×2
BITTB3×12SBN ×3
U003C
B001
A201
BITTB4×16 SBN ×2
W661
BITTB4×16 SBN ×2
W661

PACKING DISASSEMBLY

32WLT58



37WLT58



CHASSIS AND CABINET REPLACEMENT PARTS LIST

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "SERVICE SAFETY PRECAUTIONS" ON PAGE 3 OF THIS MANUAL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE. Do not degrade the safety of the receiver through improper servicing.

NOTICE:

The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.

The PC board assembly with ∗ mark is no longer available after the end of the production.

Model : 32WLT58/37WLT58

Capacitors	CD	: Ceramic Disk	PF	: Plastic Film	EL	: Electrolytic
Resistors	CF	: Carbon Film	CC	: Carbon Composition	MF	: Metal Film
	OMF	: Oxide Metal Film	VR	: Variable Resistor	FR	: Fusible Resistor

(All CD and PF capacitors are ±5%, 50V and all resistors, ±5%, 1/6W unless otherwise noted.)

Location No.	Parts No.	Description
#1 : [32WLT58]		
#2 : [37WLT58]		
CAPACITORS		
C101	76109103	CERAMIC CHIP, 50V B 0.01UF K
C102	76073019	ELECTROLYTIC, 10V 470UF M 3A
C103	76109102	CERAMIC CHIP, 50V B 1000PF K
C104	76619143	ELECTROLYTIC CHIP, 50V 4.7UF M
C105	76073019	ELECTROLYTIC, 10V 470UF M 3A
C113	76109102	CERAMIC CHIP, 50V B 1000PF K
C117	76109103	CERAMIC CHIP, 50V B 0.01UF K
C118	76109103	CERAMIC CHIP, 50V B 0.01UF K
C162	76105101	CERAMIC CHIP, 50V CH 100PF J
C164	76100103	CERAMIC CHIP, 50V F 0.01UF Z
C190	76092730	CERAMIC CHIP, 16V B 0.1UF K
C501	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C502	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C503	76619046	ELECTROLYTIC CHIP, 16V 470UF
C504	76109103	CERAMIC CHIP, 50V B 0.01UF K
C505	76619046	ELECTROLYTIC CHIP, 16V 470UF
C506	76109103	CERAMIC CHIP, 50V B 0.01UF K
C514	76665221	ELECTROLYTIC, 10V 220UF M 3A
C516	76105110	CERAMIC CHIP, 50V CH 11PF J
C517	76092785	CERAMIC CHIP, 10V B 0.47UF K
C519	76619048	ELECTROLYTIC CHIP, 25V 4.7UF M
C521	76092733	CERAMIC CHIP, 50V B 0.022UF K
C524	76109103	CERAMIC CHIP, 50V B 0.01UF K
C526	76109103	CERAMIC CHIP, 50V B 0.01UF K
C527	76619071	ELECTROLYTIC CHIP, 50V 2.2UF
C529	76100104	CERAMIC CHIP, 25V F 0.1UF Z
C530	76619157	ELECTROLYTIC CHIP, 16V 100UF
C605	76109102	CERAMIC CHIP, 50V B 1000PF K
C606	76109102	CERAMIC CHIP, 50V B 1000PF K
C612	76664102	ELECTROLYTIC, 6.3V 1000UF M 3A
C631	76619102	ELECTROLYTIC CHIP, 16V 47UF M
C632	76092731	CERAMIC CHIP, 16V B 1UF K
C651	76092463	CERAMIC CHIP, 16V B 0.22UF K
C652	76092463	CERAMIC CHIP, 16V B 0.22UF K
C653	76092538	CERAMIC CHIP, 10V F 1UF Z
C655	76109103	CERAMIC CHIP, 50V B 0.01UF K
C661	76109102	CERAMIC CHIP, 50V B 1000PF K
C662	76109102	CERAMIC CHIP, 50V B 1000PF K
C663	76619100	ELECTROLYTIC CHIP, 16V 10UF M
C665	76669479	ELECTROLYTIC, 50V 4.7UF M
C666	76669479	ELECTROLYTIC, 50V 4.7UF M
C671	76669100	ELECTROLYTIC, 50V 10UF M

Location No.	Parts No.	Description
C674	76669100	ELECTROLYTIC, 50V 10UF M
C677	76109681	CERAMIC CHIP, 50V B 680PF K
C678	76109681	CERAMIC CHIP, 50V B 680PF K
C680	76668102	ELECTROLYTIC, 35V 1000UF M 3A
C681	76668102	ELECTROLYTIC, 35V 1000UF M 3A
C682	76668102	ELECTROLYTIC, 35V 1000UF M 3A
C690	76815103	CERAMIC CHIP, 50V B 0.01UF K
C694	76285104	CERAMIC CHIP, 50V B 0.1UF K
C696	76285104	CERAMIC CHIP, 50V B 0.1UF K
⚠ C801	76168007	MT PLA AC275V 1UF M
⚠ C802	76503508	MT PLA PCX2 337 11474
⚠ C806	76092555	CERAMIC DISC, AC250V E 1000PF M
⚠ C807	76092555	CERAMIC DISC, AC250V E 1000PF M
⚠ C808	76092553	CERAMIC DISC, AC250V B 470PF K
⚠ C809	76092553	CERAMIC DISC, AC250V B 470PF K
C812	76109102	CERAMIC CHIP, 50V B 1000PF K
C814	76109102	CERAMIC CHIP, 50V B 1000PF K
C815	76073037	ELECTROLYTIC, 16V 47UF M 3A
C815A	23960136	ADHESIVE, SILICONE, TSE3843-W
C816	76109102	CERAMIC CHIP, 50V B 1000PF K
C817	76109102	CERAMIC CHIP, 50V B 1000PF K
C818	76669010	ELECTROLYTIC, 50V 1UF M
C819	76539684	PLASTIC FILM, 50V 0.68UF J
C820	76125010	CHEMICON CE69R 450V 270UF M 3H
C821	76125011	CHEMICON CE04R 450V 82UF M 4A
C822	76214103	CERAMIC DISC, 500V B 0.01UF K
C824	76168008	MT PLA 450V 1UF K
C825	76168008	MT PLA 450V 1UF K
C826	76092339	CERAMIC DISC, 2KV 330PF K
C827	76092339	CERAMIC DISC, 2KV 330PF K
C840	76125009	CHEMICON 450V 47UF M
C843	76166001	CERAMIC DISK CC45 SL 3.15KV 47PF J
C844	76669479	ELECTROLYTIC, 50V 4.7UF M
C845	76073196	ELECTROLYTIC, 50V 22UF M 3A
C846	76073140	ELECTROLYTIC CE04P 10V 680UF M 3A
C847	76665471	ELECTROLYTIC, 10V 470UF M
C848	76214471	CERAMIC DISC, 500V B 470PF K
C849A	23960136	ADHESIVE, SILICONE, TSE3843-W
C860	76214103	CERAMIC DISC, 500V B 0.01UF K
C861	76503053	PLASTIC FILM, 63V 1UF J
C862	76669229	ELECTROLYTIC, 50V 2.2UF M
C863	76503049	PLASTIC FILM, 63V 0.47UF J
C864	76567224	PLASTIC FILM, 50V 0.22UF J
C865	76567224	PLASTIC FILM, 50V 0.22UF J
C866	76092341	CERAMIC DISC, 2KV R 470PF K
C868	76435221	CERAMIC DISC, 500V SL 220PF J

Location No.	Parts No.	Description
C869	76435221	CERAMIC DISC, 500V SL 220PF J
⚠ C870	76503425	PLASTIC FILM CQ92 3D2J473J-K5
C872	76073189	ELECTROLYTIC, 35V 1000UF M
C873	76073189	ELECTROLYTIC, 35V 1000UF M
C876	76073204	ELECTROLYTIC CE04P 50V 330UF M 3A
C877	76669229	ELECTROLYTIC, 50V 2.2UF M
C878	76503041	PLASTIC FILM , 63V 0.1UF J
C880	76503229	PLASTIC FILM, 1250VH 1000PF H
C881	76092337	CERAMIC DISC, 2KV 220PF K
C882	76567334	PLASTIC FILM, 50V 0.33UF J
C883	76212221	CERAMIC DISC, 50V B 220PF K
C884	76073196	ELECTROLYTIC, 50V 22UF M 3A
C885	76214471	CERAMIC DISC, 500V B 470PF K
C886	76212152	CERAMIC DISC, 50V B 1500PF K
C887	76214471	CERAMIC DISC, 500V B 470PF K
C888	76073189	ELECTROLYTIC, 35V 1000UF M
C889	76073189	ELECTROLYTIC, 35V 1000UF M
C890	76796102	ELECTROLYTIC, 35V 1000UF M
C891	76214471	CERAMIC DISC, 500V B 470PF K
C892	76676100	ELECTROLYTIC, 100V 10UF M 3A
C893	76747220	ELECTROLYTIC, 50V 22UF M 7L 3A
C894	76214471	CERAMIC DISC, 500V B 470PF K
C895	76073188	ELECTROLYTIC, 35V 680UF M
C896	76073188	ELECTROLYTIC, 35V 680UF M
C897	76796102	ELECTROLYTIC, 35V 1000UF M
C898	76669010	ELECTROLYTIC, 50V 1UF M
C8171	76092730	CERAMIC CHIP, 16V B 0.1UF K
C8191	76092730	CERAMIC CHIP, 16V B 0.1UF K
C8210	76105331	CERAMIC CHIP, 50V CH 330PF J
C8211	76815473	CERAMIC CHIP, 50V B 0.047UF K
C8212	76092178	CERAMIC CHIP, 25V B 0.1UF K
C8213	76109102	CERAMIC CHIP, 50V B 1000PF K
C8241	76073196	ELECTROLYTIC, 50V 22UF M 3A
C8250	76092341	CERAMIC DISC, 2KV R 470PF K
C8251	76434100	CERAMIC DISC, 500V SL 10PF D
C8390	76109102	CERAMIC CHIP, 50V B 1000PF K
C8401	76092733	CERAMIC CHIP, 50V B 0.022UF K
C8402	76092733	CERAMIC CHIP, 50V B 0.022UF K
C8403	76669470	ELECTROLYTIC, 50V 47UF M
C8490	76669010	ELECTROLYTIC, 50V 1UF M
C8601	76591682	PLASTIC FILM, 50V 6800PF J
C8602	76212101	CERAMIC DISC, 50V B 100PF K
C8605	76285104	CERAMIC CHIP, 50V B 0.1UF K
C8701	76567224	PLASTIC FILM, 50V 0.22UF J
C8702	76287224	CHIP CER 50V F 224Z GRM319F11H224ZA01D
C8703	76109102	CERAMIC CHIP, 50V B 1000PF K
C8801	76092730	CERAMIC CHIP, 16V B 0.1UF K
C8802	76092883	CERAMIC CHIP, 50V B 0.1UF K
C8891	76503049	PLASTIC FILM, 63V 0.47UF J
CB01	76202221	ELECTROLYTIC, 10V 220UF M 7L 3A
CB02	76202221	ELECTROLYTIC, 10V 220UF M 7L 3A
CB03	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CB04	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CB05	76202221	ELECTROLYTIC, 10V 220UF M 7L 3A
CB38	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CC01	76105100	CERAMIC CHIP, 50V CH 10PF D
CC02	76105100	CERAMIC CHIP, 50V CH 10PF D
CC03	76105100	CERAMIC CHIP, 50V CH 10PF D
CC04	76105100	CERAMIC CHIP, 50V CH 10PF D
CC05	76105100	CERAMIC CHIP, 50V CH 10PF D
CC06	76105100	CERAMIC CHIP, 50V CH 10PF D
CC07	76105100	CERAMIC CHIP, 50V CH 10PF D
CC08	76105100	CERAMIC CHIP, 50V CH 10PF D
CC09	76105100	CERAMIC CHIP, 50V CH 10PF D
CC10	76105100	CERAMIC CHIP, 50V CH 10PF D
CC11	76109102	CERAMIC CHIP, 50V B 1000PF K
CC12	76109102	CERAMIC CHIP, 50V B 1000PF K
CC14	76109102	CERAMIC CHIP, 50V B 1000PF K
CC15	76109102	CERAMIC CHIP, 50V B 1000PF K
CC16	76109102	CERAMIC CHIP, 50V B 1000PF K
CC17	76109102	CERAMIC CHIP, 50V B 1000PF K
CC21	76109102	CERAMIC CHIP, 50V B 1000PF K
CC31	76105100	CERAMIC CHIP, 50V CH 10PF D
	76109472	CERAMIC CHIP, 50V B 4700PF K
CC32	76105100	CERAMIC CHIP, 50V CH 10PF D
CC33	76109102	CERAMIC CHIP, 50V B 1000PF K

Location No.	Parts No.	Description
CC40	76109102	CERAMIC CHIP, 50V B 1000PF K
CC41	76109102	CERAMIC CHIP, 50V B 1000PF K
CC59	76109102	CERAMIC CHIP, 50V B 1000PF K
CC60	76109102	CERAMIC CHIP, 50V B 1000PF K
CC61	76109102	CERAMIC CHIP, 50V B 1000PF K
CC62	76109102	CERAMIC CHIP, 50V B 1000PF K
CC63	76109102	CERAMIC CHIP, 50V B 1000PF K
CC64	76109102	CERAMIC CHIP, 50V B 1000PF K
CC65	76109102	CERAMIC CHIP, 50V B 1000PF K
CC66	76109102	CERAMIC CHIP, 50V B 1000PF K
CC67	76109102	CERAMIC CHIP, 50V B 1000PF K
CC68	76109102	CERAMIC CHIP, 50V B 1000PF K
CC69	76109102	CERAMIC CHIP, 50V B 1000PF K
CC70	76109102	CERAMIC CHIP, 50V B 1000PF K
CC74	76109102	CERAMIC CHIP, 50V B 1000PF K
CC75	76109102	CERAMIC CHIP, 50V B 1000PF K
CC79	76109102	CERAMIC CHIP, 50V B 1000PF K
CC82	76109102	CERAMIC CHIP, 50V B 1000PF K
CD80	76666470	ELECTORLYTIC, 16V 47UF M 3A
CD82	76669100	ELECTROLYTIC, 50V 10UF M
CD83	76109103	CERAMIC CHIP, 50V B 0.01UF K
CD84	76109103	CERAMIC CHIP, 50V B 0.01UF K
CD85	76109103	CERAMIC CHIP, 50V B 0.01UF K
CD86	76109103	CERAMIC CHIP, 50V B 0.01UF K
CD87	76109103	CERAMIC CHIP, 50V B 0.01UF K
CD230	76109103	CERAMIC CHIP, 50V B 0.01UF K
CD233	76092628	CERAMIC CHIP, 6.3V B 10UF K
CD234	76092573	CERAMIC CHIP, 16V B 0.47UF K
CD235	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CE10	76666470	ELECTORLYTIC, 16V 47UF M 3A
CE11	76539474	PLASTIC FILM, 50V 0.47UF J
CE12	76666470	ELECTORLYTIC, 16V 47UF M 3A
CE30	76073186	ELECTROLYTIC, 35V 470UF M
CE31	76125012	ELECTROLYTIC 04CQ 25V 2700UF M A
CE32	76073007	ELECTROLYTIC, 6.3V 3300UF M 3A
CE33	76539104	PLASTIC FILM, 50V 0.1UF J
CE34	76539104	PLASTIC FILM, 50V 0.1UF J
CE35	76539334	PLASTIC FILM, 50V 0.33UF J
CE36	76666470	ELECTORLYTIC, 16V 47UF M 3A
CE60	76073186	ELECTROLYTIC, 35V 470UF M
CE61	76617028	ELECTROLYTIC, 16V 1200UF M
CE62	76073020	ELECTROLYTIC, 10V 1000UF M 3A
CE63	76539104	PLASTIC FILM, 50V 0.1UF J
CE64	76539104	PLASTIC FILM, 50V 0.1UF J
CE65	76666470	ELECTORLYTIC, 16V 47UF M 3A
CE66	76539474	PLASTIC FILM, 50V 0.47UF J
CE67	76666470	ELECTORLYTIC, 16V 47UF M 3A
CE90	76073186	ELECTROLYTIC, 35V 470UF M
CE91	76617028	ELECTROLYTIC, 16V 1200UF M
CE92	76666471	ELECTROLYTIC, 16V 470UF M
CE93	76539104	PLASTIC FILM, 50V 0.1UF J
CE94	76539104	PLASTIC FILM, 50V 0.1UF J
CE95	76668101	ELECTROLYTIC, 35V 100UF M 3A
CR01	76092730	CERAMIC CHIP, 16V B 0.1UF K
CR02	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CR03	76619157	ELECTROLYTIC CHIP, 16V 100UF
CR26	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CR27	76619157	ELECTROLYTIC CHIP, 16V 100UF
CS01	76092731	CERAMIC CHIP, 16V B 1UF K
CS02	76092515	CERAMIC CHIP, 16V F 4.7UF Z
CS03	76092726	CERAMIC CHIP, 10V B 2.2UF K
CS04	76092726	CERAMIC CHIP, 10V B 2.2UF K
CS05	76092726	CERAMIC CHIP, 10V B 2.2UF K
CS06	76092726	CERAMIC CHIP, 10V B 2.2UF K
CS08	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS09	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS10	76092628	CERAMIC CHIP, 6.3V B 10UF K
CS11	76092628	CERAMIC CHIP, 6.3V B 10UF K
CS12	76109473	CERAMIC CHIP, 25V B 0.047UF K
CS13	76092628	CERAMIC CHIP, 6.3V B 10UF K
CS14	76092628	CERAMIC CHIP, 6.3V B 10UF K
CS15	76092628	CERAMIC CHIP, 6.3V B 10UF K
CS16	76092628	CERAMIC CHIP, 6.3V B 10UF K
CS26	76619100	ELECTROLYTIC CHIP, 16V 10UF M
CS31	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS32	76092611	CERAMIC CHIP, 6.3V B 2.2UF K

Location No.	Parts No.	Description
CS33	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS34	76092731	CERAMIC CHIP, 16V B 1UF K
CS39	76092573	CERAMIC CHIP, 16V B 0.47UF K
CS40	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS41	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS42	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS43	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS44	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS45	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS46	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS47	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS48	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS49	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS50	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS51	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS52	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS53	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS54	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS55	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS56	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS57	76619102	ELECTROLYTIC CHIP, 16V 47UF M
CS62	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS64	76619101	ELECTROLYTIC CHIP, 16V 22UF M
CS82	76092609	CERAMIC CHIP, 10V B 4,7UF K
CS83	76092609	CERAMIC CHIP, 10V B 4,7UF K
CS85	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS86	76092611	CERAMIC CHIP, 6.3V B 2.2UF K
CS88	76092609	CERAMIC CHIP, 10V B 4,7UF K
CS89	76105101	CERAMIC CHIP, 50V CH 100PF J
CS90	76092609	CERAMIC CHIP, 10V B 4,7UF K
CS91	76105101	CERAMIC CHIP, 50V CH 100PF J
CS93	76092515	CERAMIC CHIP, 16V F 4.7UF Z
CT01	76092790	CERAMIC CHIP CK732B 6.3V 10UF K
CT04	76105151	CERAMIC CHIP, 50V CH 150PF J
CT05	76092790	CERAMIC CHIP CK732B 6.3V 10UF K
CT06	76092790	CERAMIC CHIP CK732B 6.3V 10UF K
CT07	76092790	CERAMIC CHIP CK732B 6.3V 10UF K
CT08	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CT09	76109103	CERAMIC CHIP, 50V B 0.01UF K
CV01	76666471	ELECTROLYTIC, 16V 470UF M
CV02	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CV03	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CV04	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CV12	76092731	CERAMIC CHIP, 16V B 1UF K
CV13	76092731	CERAMIC CHIP, 16V B 1UF K
CV14	76092731	CERAMIC CHIP, 16V B 1UF K
CV15	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CV16	76092731	CERAMIC CHIP, 16V B 1UF K
CV17	76092731	CERAMIC CHIP, 16V B 1UF K
CV18	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CV19	76092731	CERAMIC CHIP, 16V B 1UF K
CV20	76092731	CERAMIC CHIP, 16V B 1UF K
CV21	76092731	CERAMIC CHIP, 16V B 1UF K
CV22	76092731	CERAMIC CHIP, 16V B 1UF K
CV23	76092731	CERAMIC CHIP, 16V B 1UF K
CV24	76092731	CERAMIC CHIP, 16V B 1UF K
CV25	76092731	CERAMIC CHIP, 16V B 1UF K
CV26	76092731	CERAMIC CHIP, 16V B 1UF K
CV27	76092731	CERAMIC CHIP, 16V B 1UF K
CV28	76092731	CERAMIC CHIP, 16V B 1UF K
CV29	76092731	CERAMIC CHIP, 16V B 1UF K
CV33	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CV34	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CV35	76619157	ELECTROLYTIC CHIP, 16V 100UF
CV36	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CV40	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CV41	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CV50	76619102	ELECTROLYTIC CHIP, 16V 47UF M
CV51	76619102	ELECTROLYTIC CHIP, 16V 47UF M
CV52	76619102	ELECTROLYTIC CHIP, 16V 47UF M
CV53	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CV54	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CV55	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CV56	76619157	ELECTROLYTIC CHIP, 16V 100UF
CV57	76619157	ELECTROLYTIC CHIP, 16V 100UF
CV58	76619157	ELECTROLYTIC CHIP, 16V 100UF

Location No.	Parts No.	Description
CV59	76666471	ELECTROLYTIC, 16V 470UF M
CV60	76666471	ELECTROLYTIC, 16V 470UF M
CV61	76666471	ELECTROLYTIC, 16V 470UF M
CV62	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CV63	76666471	ELECTROLYTIC, 16V 470UF M
CV72	76619101	ELECTROLYTIC CHIP, 16V 22UF M
CV121	76109103	CERAMIC CHIP, 50V B 0.01UF K
CV122	76105101	CERAMIC CHIP, 50V CH 100PF J
CY01	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CY02	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CY03	76100104	CERAMIC CHIP, 25V F 0.1UF Z
CY650	76109103	CERAMIC CHIP, 50V B 0.01UF K
RESISTORS		
R103	76011101	CHIP, 1/20W 100 OHM J
R104	76011103	CHIP, 1/20W 10K OHM J
R105	76011273	CHIP, 1/20W 27K OHM J
R107	76000445	CHIP JUMPER, 1608TYPE
R108	76000445	CHIP JUMPER, 1608TYPE
R114	76000445	CHIP JUMPER, 1608TYPE
R167	76011101	CHIP, 1/20W 100 OHM J
R169	76000445	CHIP JUMPER, 1608TYPE
R170	76011682	CHIP, 1/20W 6.8K OHM J
R501	76011682	CHIP, 1/20W 6.8K OHM J
R502	76011272	CHIP, 1/20W 2.7K OHM J
R504	76011101	CHIP, 1/20W 100 OHM J
R505	76011101	CHIP, 1/20W 100 OHM J
R506	76011273	CHIP, 1/20W 27K OHM J
R507	76011392	CHIP, 1/20W 3.9K OHM J
R508	76011682	CHIP, 1/20W 6.8K OHM J
R512	76011101	CHIP, 1/20W 100 OHM J
R514	76011102	CHIP, 1/20W 1K OHM J
R607	76011223	CHIP, 1/20W 22K OHM J
R617	76011104	CHIP, 1/20W 100K OHM J
R620	76011223	CHIP, 1/20W 22K OHM J
R621	76011472	CHIP, 1/20W 4.7K OHM J
R650	76011102	CHIP, 1/20W 1K OHM J
R651	76011473	CHIP, 1/20W 47K OHM J
R652	76011103	CHIP, 1/20W 10K OHM J
R653	76011223	CHIP, 1/20W 22K OHM J
R654	76011103	CHIP, 1/20W 10K OHM J
R655	76011222	CHIP, 1/20W 2.2K OHM J
R664	76011104	CHIP, 1/20W 100K OHM J
R665	76011104	CHIP, 1/20W 100K OHM J
R667	76011104	CHIP, 1/20W 100K OHM J
R670	76011472	CHIP, 1/20W 4.7K OHM J
R671	76011182	CHIP, 1/20W 1.8K OHM J
R672	76011472	CHIP, 1/20W 4.7K OHM J
R673	76011182	CHIP, 1/20W 1.8K OHM J
R675	76011102	CHIP, 1/20W 1K OHM J
R676	76011473	CHIP, 1/20W 47K OHM J
R677	76011473	CHIP, 1/20W 47K OHM J
R684	76871229	CHIP, 1/8W 2.2 OHM J
R685	76871229	CHIP, 1/8W 2.2 OHM J
R687	76871102	CHIP, 1/8W 1K OHM J
R688	76871102	CHIP, 1/8W 1K OHM J
R689	76871102	CHIP, 1/8W 1K OHM J
R695	76871102	CHIP, 1/8W 1K OHM J
R696	76871102	CHIP, 1/8W 1K OHM J
R697	76000576	CHIP JUMPER, 3216TYPE
R698	76871102	CHIP, 1/8W 1K OHM J
⚠ R801	76017004	METAL GLAZE 1/2W 510K J
⚠ R809	76004718	METAL GLAZE, 1/2W 8.2M OHM J
R812	76011473	CHIP, 1/20W 47K OHM J
R820	76019461	METAL PLATE, 2W 0.15 OHM J
⚠ R821	76019461	METAL PLATE, 2W 0.15 OHM J
R826	76004714	METAL GLAZE, 1/2W 1.2M OHM J
⚠ R830	76007061	CERAMIC COVERED, 2W 1.8 OHM K
R831	76120003	CERAMIC COVERED G 5W 4.7 J
R840	76382823	0XIDE FILM 1W 82K J
R841	76322339	METAL FILM 1W 3R3 J
R842	76310479	OXIDE METAL FILM, 1/2W 4.7 OHM J
R860	76552271	OXIDE METAL FILM, 1/2W 270 OHM J
R862	76552681	OXIDE METAL FILM, 1/2W 680 OHM J
R863	76011272	CHIP, 1/20W 2.7K OHM J
R864	76552101	OXIDE METAL FILM, 1/2W 100 OHM J

Location No.	Parts No.	Description
R865	76552100	OXIDE METAL FILM, 1/2W 10 OHM J
R867	76552330	OXIDE METAL FILM, 1/2W 33 OHM J
R880	76553683	OXIDE METAL FILM, 1W 68K OHM J
R881	76553683	OXIDE METAL FILM, 1W 68K OHM J
R882	76323569	METAL FILM 2W 5R6 J
R883	76079010	METAL RES 2W R47 J
R884	76321339	OXIDE METAL FILM, 1/2W 3.3 OHM J
R885	76553101	OXIDE METAL FILM, 1W 100 OHM J
R886	76554432	OXIDE FILM 2W 4.3K J
R4100	76011102	CHIP, 1/20W 1K OHM J
R4101	76011681	CHIP, 1/20W 680 OHM J
R4102	76011471	CHIP, 1/20W 470 OHM J
R4103	76011102	CHIP, 1/20W 1K OHM J
R4104	76011152	CHIP, 1/20W 1.5K OHM J
R4105	76011102	CHIP, 1/20W 1K OHM J
R4106	76011681	CHIP, 1/20W 680 OHM J
R4107	76011471	CHIP, 1/20W 470 OHM J
R4108	76011102	CHIP, 1/20W 1K OHM J
R4109	76011152	CHIP, 1/20W 1.5K OHM J
R4120	76000445	CHIP JUMPER, 1608TYPE
R4122	76000445	CHIP JUMPER, 1608TYPE
R6603	76011223	CHIP, 1/20W 22K OHM J
R6605	76011103	CHIP, 1/20W 10K OHM J
R6606	76011104	CHIP, 1/20W 100K OHM J
R6607	76011102	CHIP, 1/20W 1K OHM J
R8110	76000250	METAL FILM, 1/4W 56K OHM F
R8111	76000250	METAL FILM, 1/4W 56K OHM F
R8112	76000250	METAL FILM, 1/4W 56K OHM F
R8113	76000250	METAL FILM, 1/4W 56K OHM F
R8114	76000527	METAL FILM, 1/4W 5.6K OHM F
R8115	76000639	METAL FILM, 1/4W 22K OHM F
R8116	76000554	CHIP 1/16W 510 F
R8117	76000574	METAL FILM CHIP 1/16W 2.7K F
R8118	76000574	METAL FILM CHIP 1/16W 2.7K F
R8130	76871182	CHIP, 1/8W 1.8K OHM J
R8131	76871182	CHIP, 1/8W 1.8K OHM J
R8132	76871182	CHIP, 1/8W 1.8K OHM J
R8133	76011102	CHIP, 1/20W 1K OHM J
R8140	76011682	CHIP, 1/20W 6.8K OHM J
R8141	76011473	CHIP, 1/20W 47K OHM J
R8142	76872470	CHIP, 1/16W 47 OHM J
R8143	76872470	CHIP, 1/16W 47 OHM J
R8144	76872390	CHIP, 1/16W 39 OHM J
R8150	76011562	CHIP, 1/20W 5.6K OHM J
R8151	76011222	CHIP, 1/20W 2.2K OHM J
R8152	76011473	CHIP, 1/20W 47K OHM J
R8160	76011103	CHIP, 1/20W 10K OHM J
R8161	76011473	CHIP, 1/20W 47K OHM J
R8162	76011103	CHIP, 1/20W 10K OHM J
R8191	76000445	CHIP JUMPER, 1608TYPE
R8192	76011471	CHIP, 1/20W 470 OHM J
R8193	76011102	CHIP, 1/20W 1K OHM J
R8194	76011151	CHIP, 1/20W 150 OHM J
R8195	76011151	CHIP, 1/20W 150 OHM J
R8210	76998471	CHIP, 1/16W 470 OHM
R8212	76998102	CHIP, 1/16W 1K OHM
R8213	76011222	CHIP, 1/20W 2.2K OHM J
R8214	76000445	CHIP JUMPER, 1608TYPE
R8215	76998222	CHIP, 1/16W 2.2K OHM
R8216	76998222	CHIP, 1/16W 2.2K OHM
R8217	76011229	CHIP, 1/16W 2.2 OHM J
R8218	76998152	CHIP, 1/16W 1.5K OHM D
R8230	76872332	CHIP, 1/16W 3.3K OHM J
R8231	76011223	CHIP, 1/20W 22K OHM J
R8232	76011472	CHIP, 1/20W 4.7K OHM J
R8233	76011473	CHIP, 1/20W 47K OHM J
R8240	76190015	CHIP RES 1/16W 473D
R8241	76190015	CHIP RES 1/16W 473D
R8242	76190015	CHIP RES 1/16W 473D
R8243	76190015	CHIP RES 1/16W 473D
R8244	76190015	CHIP RES 1/16W 473D
R8245	76190015	CHIP RES 1/16W 473D
R8246	76190015	CHIP RES 1/16W 473D
R8247	76190015	CHIP RES 1/16W 473D
R8248	76190015	CHIP RES 1/16W 473D
R8249	76000445	CHIP JUMPER, 1608TYPE

Location No.	Parts No.	Description
R8310	76011223	CHIP, 1/20W 22K OHM J
R8312	76011471	CHIP, 1/20W 470 OHM J
R8313	76011102	CHIP, 1/20W 1K OHM J
R8390	76011473	CHIP, 1/20W 47K OHM J
R8391	76011102	CHIP, 1/20W 1K OHM J
R8392	76011681	CHIP, 1/20W 680 OHM J
R8393	76011681	CHIP, 1/20W 680 OHM J
R8394	76011681	CHIP, 1/20W 680 OHM J
R8395	76011681	CHIP, 1/20W 680 OHM J
R8396	76011222	CHIP, 1/20W 2.2K OHM J
R8403	76011102	CHIP, 1/20W 1K OHM J
R8404	76011101	CHIP, 1/20W 100 OHM J
R8405	76011102	CHIP, 1/20W 1K OHM J
R8406	76011473	CHIP, 1/20W 47K OHM J
R8407	76000572	CHIP 1/16W 3.3K F
R8408	76000422	CHIP 1/16W 2.2K F
R8409	76011102	CHIP, 1/20W 1K OHM J
R8410	76000445	CHIP JUMPER, 1608TYPE
R8411	76321479	OXIDE METAL FILM, 1/2W 4.7 OHM J
R8412	76871822	CHIP, 1/8W 8.2K OHM J
R8601	76000247	METAL FILM, 1/4W 39K OHM F
R8602	76366472	CARBON FILM, 1/6W 4.7K OHM J
R8603	76011103	CHIP, 1/20W 10K OHM J
R8604	76011102	CHIP, 1/20W 1K OHM J
R8605	76011472	CHIP, 1/20W 4.7K OHM J
R8606	76011103	CHIP, 1/20W 10K OHM J
R8607	76872221	CHIP, 1/16W 220 OHM J
R8701	76000595	CHIP 1/16W 15K F
R8702	76190012	METAL FILM CHIP 1/16W 1.5K F
R8703	76011221	CHIP, 1/20W 220 OHM J
R8704	76000445	CHIP JUMPER, 1608TYPE
R8705	76011220	CHIP, 1/20W 22 OHM J
R8706	76011103	CHIP, 1/20W 10K OHM J
R8707	76011103	CHIP, 1/20W 10K OHM J
R8709	76011101	CHIP, 1/20W 100 OHM J
R8710	76011101	CHIP, 1/20W 100 OHM J
R8711	76011223	CHIP, 1/20W 22K OHM J
R8712	76011473	CHIP, 1/20W 47K OHM J
R8713	76011103	CHIP, 1/20W 10K OHM J
R8714	76011102	CHIP, 1/20W 1K OHM J
R8715	76011102	CHIP, 1/20W 1K OHM J
R8716	76011103	CHIP, 1/20W 10K OHM J
R8801	76011102	CHIP, 1/20W 1K OHM J
R8802	76011102	CHIP, 1/20W 1K OHM J
R8803	76366221	CARBON FILM, 1/6W 220 OHM J
R8804	76871222	CHIP, 1/8W 2.2K OHM J
R8805	76011102	CHIP, 1/20W 1K OHM J
R8806	76011102	CHIP, 1/20W 1K OHM J
R8807	76011152	CHIP, 1/20W 1.5K OHM J
R8808	76011101	CHIP, 1/20W 100 OHM J
R8809	76011223	CHIP, 1/20W 22K OHM J
R8810	76000605	CHIP, 1/16W 6.8K OHM F
R8811	76190012	METAL FILM CHIP 1/16W 1.5K F
R8812	76000446	CHIP 1/16W 220 F
R8813	76000824	CHIP JUMPER, 2125TYPE
R8814	76011103	CHIP, 1/20W 10K OHM J
R8815	76872151	CHIP, 1/16W 150 OHM J
RA711	76011683	CHIP, 1/20W 68K OHM J
RA721	76011223	CHIP, 1/20W 22K OHM J
RA731	76011103	CHIP, 1/20W 10K OHM J
RA741	76000445	CHIP JUMPER, 1608TYPE
RA771	76011103	CHIP, 1/20W 10K OHM J
RA781	76000445	CHIP JUMPER, 1608TYPE
RA791	76000445	CHIP JUMPER, 1608TYPE
RA801	76011223	CHIP, 1/20W 22K OHM J
RB08	76011470	CHIP, 1/20W 47 OHM J
RB09	76011470	CHIP, 1/20W 47 OHM J
RB10	76011331	CHIP, 1/20W 330 OHM J
RB15	76011471	CHIP, 1/20W 470 OHM J
RB24	76000445	CHIP JUMPER, 1608TYPE
RC01	76011681	CHIP, 1/20W 680 OHM J
RC02	76011681	CHIP, 1/20W 680 OHM J
RC03	76011681	CHIP, 1/20W 680 OHM J
RC04	76011681	CHIP, 1/20W 680 OHM J
RC05	76011681	CHIP, 1/20W 680 OHM J
RC06	76011681	CHIP, 1/20W 680 OHM J

Location No.	Parts No.	Description
RC07	76000445	CHIP JUMPER, 1608TYPE
RC08	76000445	CHIP JUMPER, 1608TYPE
RC09	76000445	CHIP JUMPER, 1608TYPE
RC10	76000445	CHIP JUMPER, 1608TYPE
RC11	76011821	CHIP, 1/20W 820 OHM J
RC12	76011821	CHIP, 1/20W 820 OHM J
RC13	76011681	CHIP, 1/20W 680 OHM J
RC14	76011101	CHIP, 1/20W 100 OHM J
RC15	76011330	CHIP, 1/20W 33 OHM J
RC16	76011681	CHIP, 1/20W 680 OHM J
RC17	76011330	CHIP, 1/20W 33 OHM J
RC18	76011330	CHIP, 1/20W 33 OHM J
RC19	76011330	CHIP, 1/20W 33 OHM J
RC20	76011330	CHIP, 1/20W 33 OHM J
RC21	76011330	CHIP, 1/20W 33 OHM J
RC22	76011221	CHIP, 1/20W 220 OHM J
	76011330	CHIP, 1/20W 33 OHM J
RC23	76000445	CHIP JUMPER, 1608TYPE
RC24	76011330	CHIP, 1/20W 33 OHM J
RC31	76000445	CHIP JUMPER, 1608TYPE
RC32	76000445	CHIP JUMPER, 1608TYPE
RC33	76000445	CHIP JUMPER, 1608TYPE
RC34	76000445	CHIP JUMPER, 1608TYPE
RC35	76000445	CHIP JUMPER, 1608TYPE
RC36	76000445	CHIP JUMPER, 1608TYPE
RC37	76000445	CHIP JUMPER, 1608TYPE
RC38	76011330	CHIP, 1/20W 33 OHM J
RC39	76011330	CHIP, 1/20W 33 OHM J
RC40	76011101	CHIP, 1/20W 100 OHM J
RC41	76011101	CHIP, 1/20W 100 OHM J
RC42	76011330	CHIP, 1/20W 33 OHM J
RC43	76011330	CHIP, 1/20W 33 OHM J
RC51	76011101	CHIP, 1/20W 100 OHM J
RC52	76011101	CHIP, 1/20W 100 OHM J
RC53	76011101	CHIP, 1/20W 100 OHM J
RD212	76011101	CHIP, 1/20W 100 OHM J
RD236	76011101	CHIP, 1/20W 100 OHM J
RD237	76011101	CHIP, 1/20W 100 OHM J
RD238	76011101	CHIP, 1/20W 100 OHM J
RD240	76011101	CHIP, 1/20W 100 OHM J
RD248	76011473	CHIP, 1/20W 47K OHM J
RD251	76011332	CHIP, 1/20W 3.3K OHM J
RD252	76011102	CHIP, 1/20W 1K OHM J
RD253	76011223	CHIP, 1/20W 22K OHM J
RD254	76011473	CHIP, 1/20W 47K OHM J
RD255	76011101	CHIP, 1/20W 100 OHM J
RE01	76366153	CARBON FILM, 1/6W 15K OHM J
RE02	76366473	CARBON FILM, 1/6W 47K OHM J
RE03	76366153	CARBON FILM, 1/6W 15K OHM J
RE06	76366473	CARBON FILM, 1/6W 47K OHM J
RE10	76367180	CARBON FILM, 1/6W 18 OHM G
RE11	76367222	CARBON FILM, 1/6W 2.2K OHM G
RE12	76366472	CARBON FILM, 1/6W 4.7K OHM J
RE13	76366102	CARBON FILM, 1/6W 1K OHM J
RE18	76366153	CARBON FILM, 1/6W 15K OHM J
RE19	76366473	CARBON FILM, 1/6W 47K OHM J
RE30	76000164	METAL FILM, 1/4W 39 OHM F
RE31	76000356	METAL FILM, 1/4W 820 OHM F
RE33	76366102	CARBON FILM, 1/6W 1K OHM J
RE35	76182048	METAL FILM 1/4W 220 F
RE36	76182048	METAL FILM 1/4W 220 F
RE37	76000220	METAL FILM, 1/4W 390 OHM F
RE38	76366102	CARBON FILM, 1/6W 1K OHM J
RE50	76382101	OXIDE METAL FILM, 1W 100 OHM J
RE60	76000142	METAL FILM, 1/4W 240 OHM F
RE61	76000360	METAL FILM, 1/4W 1.2K OHM F
RE63	76366102	CARBON FILM, 1/6W 1K OHM J
RE65	76367620	CARBON FILM 1/6W 62 G
RE66	76367222	CARBON FILM, 1/6W 2.2K OHM G
RE90	76000155	METAL FILM, 1/4W 15 OHM F
RE91	76000358	METAL FILM, 1/4W 1K OHM F
RE92	76366101	CARBON FILM, 1/6W 100 OHM J
RE93	76366102	CARBON FILM, 1/6W 1K OHM J
RE94	76553101	OXIDE METAL FILM, 1W 100 OHM J
RE95	76552102	OXIDE METAL FILM, 1/2W 1K OHM J
RE96	76366473	CARBON FILM, 1/6W 47K OHM J

Location No.	Parts No.	Description
RE97	76366472	CARBON FILM, 1/6W 4.7K OHM J
RE98	76366473	CARBON FILM, 1/6W 47K OHM J
RE99	76366101	CARBON FILM, 1/6W 100 OHM J
RR01	76871750	CHIP, 1/8W 75 OHM J
RR02	76871750	CHIP, 1/8W 75 OHM J
RR03	76871750	CHIP, 1/8W 75 OHM J
RR04	76011330	CHIP, 1/20W 33 OHM J
RR05	76011330	CHIP, 1/20W 33 OHM J
RR06	76011330	CHIP, 1/20W 33 OHM J
RR07	76011102	CHIP, 1/20W 1K OHM J
RR10	76011101	CHIP, 1/20W 100 OHM J
RR11	76011101	CHIP, 1/20W 100 OHM J
RR13	76011101	CHIP, 1/20W 100 OHM J
RR14	76011101	CHIP, 1/20W 100 OHM J
RR50	76872750	CHIP, 1/16W 75 OHM J
RS01	76011222	CHIP, 1/20W 2.2K OHM J
RS03	76011101	CHIP, 1/20W 100 OHM J
RS04	76011101	CHIP, 1/20W 100 OHM J
RS05	76011101	CHIP, 1/20W 100 OHM J
RS06	76011101	CHIP, 1/20W 100 OHM J
RS07	76011104	CHIP, 1/20W 100K OHM J
RS08	76011104	CHIP, 1/20W 100K OHM J
RS09	76011104	CHIP, 1/20W 100K OHM J
RS10	76011104	CHIP, 1/20W 100K OHM J
RS11	76011223	CHIP, 1/20W 22K OHM J
RS12	76011104	CHIP, 1/20W 100K OHM J
RS13	76011104	CHIP, 1/20W 100K OHM J
RS16	76011473	CHIP, 1/20W 47K OHM J
RS17	76011473	CHIP, 1/20W 47K OHM J
RS18	76011103	CHIP, 1/20W 10K OHM J
RS19	76011104	CHIP, 1/20W 100K OHM J
RS20	76011104	CHIP, 1/20W 100K OHM J
RS21	76011473	CHIP, 1/20W 47K OHM J
RS22	76011473	CHIP, 1/20W 47K OHM J
RS23	76011223	CHIP, 1/20W 22K OHM J
RS24	76011223	CHIP, 1/20W 22K OHM J
RS25	76011223	CHIP, 1/20W 22K OHM J
RS26	76011223	CHIP, 1/20W 22K OHM J
RS27	76011222	CHIP, 1/20W 2.2K OHM J
RS28	76011222	CHIP, 1/20W 2.2K OHM J
RS29	76011102	CHIP, 1/20W 1K OHM J
RS30	76011102	CHIP, 1/20W 1K OHM J
RS31	76011104	CHIP, 1/20W 100K OHM J
RS32	76011104	CHIP, 1/20W 100K OHM J
RS33	76011473	CHIP, 1/20W 47K OHM J
RS34	76011473	CHIP, 1/20W 47K OHM J
RS35	76011104	CHIP, 1/20W 100K OHM J
RS36	76011101	CHIP, 1/20W 100 OHM J
RS37	76011223	CHIP, 1/20W 22K OHM J
RS38	76011223	CHIP, 1/20W 22K OHM J
RS39	76011101	CHIP, 1/20W 100 OHM J
RS40	76011472	CHIP, 1/20W 4.7K OHM J
RS41	76011472	CHIP, 1/20W 4.7K OHM J
RS42	76011472	CHIP, 1/20W 4.7K OHM J
RS43	76011472	CHIP, 1/20W 4.7K OHM J
RS44	76011472	CHIP, 1/20W 4.7K OHM J
RS45	76011472	CHIP, 1/20W 4.7K OHM J
RS46	76011472	CHIP, 1/20W 4.7K OHM J
RS47	76011472	CHIP, 1/20W 4.7K OHM J
RS48	76011472	CHIP, 1/20W 4.7K OHM J
RS49	76011472	CHIP, 1/20W 4.7K OHM J
RS50	76011472	CHIP, 1/20W 4.7K OHM J
RS51	76011472	CHIP, 1/20W 4.7K OHM J
RS52	76011472	CHIP, 1/20W 4.7K OHM J
RS53	76011472	CHIP, 1/20W 4.7K OHM J
RS54	76011472	CHIP, 1/20W 4.7K OHM J
RS55	76011472	CHIP, 1/20W 4.7K OHM J
RS56	76011472	CHIP, 1/20W 4.7K OHM J
RS57	76011104	CHIP, 1/20W 100K OHM J
RS58	76011101	CHIP, 1/20W 100 OHM J
RS59	76011101	CHIP, 1/20W 100 OHM J
RS60	76011101	CHIP, 1/20W 100 OHM J
RS61	76011101	CHIP, 1/20W 100 OHM J
RS62	76011472	CHIP, 1/20W 4.7K OHM J
RS63	76011473	CHIP, 1/20W 47K OHM J
RS64	76011682	CHIP, 1/20W 6.8K OHM J

Location No.	Parts No.	Description
RS65	76011182	CHIP, 1/20W 1.8K OHM J
RS66	76011100	CHIP, 1/20W 10 OHM J
RS67	76011101	CHIP, 1/20W 100 OHM J
RS68	76011101	CHIP, 1/20W 100 OHM J
RS69	76011222	CHIP, 1/20W 2.2K OHM J
RS70	76011222	CHIP, 1/20W 2.2K OHM J
RS71	76011102	CHIP, 1/20W 1K OHM J
RS72	76011102	CHIP, 1/20W 1K OHM J
RS73	76011391	CHIP, 1/20W 390 OHM J
RS74	76011104	CHIP, 1/20W 100K OHM J
RS76	76011101	CHIP, 1/20W 100 OHM J
RS77	76011472	CHIP, 1/20W 4.7K OHM J
RS78	76011102	CHIP, 1/20W 1K OHM J
RS79	76011101	CHIP, 1/20W 100 OHM J
RS80	76011472	CHIP, 1/20W 4.7K OHM J
RS81	76011102	CHIP, 1/20W 1K OHM J
RS82	76011472	CHIP, 1/20W 4.7K OHM J
RS83	76011472	CHIP, 1/20W 4.7K OHM J
RS85	76011472	CHIP, 1/20W 4.7K OHM J
RS86	76011472	CHIP, 1/20W 4.7K OHM J
RS87	76011101	CHIP, 1/20W 100 OHM J
RS88	76011101	CHIP, 1/20W 100 OHM J
RS89	76011104	CHIP, 1/20W 100K OHM J
RS90	76011391	CHIP, 1/20W 390 OHM J
RS91	76011473	CHIP, 1/20W 47K OHM J
RS96	76011223	CHIP, 1/20W 22K OHM J
RS97	76011223	CHIP, 1/20W 22K OHM J
RS301	76011102	CHIP, 1/20W 1K OHM J
RS302	76011104	CHIP, 1/20W 100K OHM J
RS303	76011104	CHIP, 1/20W 100K OHM J
RS304	76000445	CHIP JUMPER, 1608TYPE
RS305	76000445	CHIP JUMPER, 1608TYPE
RS400	76011822	CHIP, 1/20W 8.2K OHM J
RS401	76011123	CHIP, 1/20W 12K OHM J
RS402	76011101	CHIP, 1/20W 100 OHM J
RS403	76011101	CHIP, 1/20W 100 OHM J
RS404	76011123	CHIP, 1/20W 12K OHM J
RS405	76011822	CHIP, 1/20W 8.2K OHM J
RS416	76011473	CHIP, 1/20W 47K OHM J
RS417	76011473	CHIP, 1/20W 47K OHM J
RS529	76011223	CHIP, 1/20W 22K OHM J
RS530	76011103	CHIP, 1/20W 10K OHM J
RT01	76011101	CHIP, 1/20W 100 OHM J
RT02	76011273	CHIP, 1/20W 27K OHM J
RT03	76011683	CHIP, 1/20W 68K OHM J
RT04	76011102	CHIP, 1/20W 1K OHM J
RT05	76011101	CHIP, 1/20W 100 OHM J
RT06	76011391	CHIP, 1/20W 390 OHM J
RT07	76011821	CHIP, 1/20W 820 OHM J
RT08	76011151	CHIP, 1/20W 150 OHM J
RT09	76011471	CHIP, 1/20W 470 OHM J
RT10	76011101	CHIP, 1/20W 100 OHM J
RT11	76011471	CHIP, 1/20W 470 OHM J
RT12	76011102	CHIP, 1/20W 1K OHM J
RV01	76011101	CHIP, 1/20W 100 OHM J
RV02	76011101	CHIP, 1/20W 100 OHM J
RV03	76011101	CHIP, 1/20W 100 OHM J
RV04	76011101	CHIP, 1/20W 100 OHM J
RV05	76011101	CHIP, 1/20W 100 OHM J
RV06	76011101	CHIP, 1/20W 100 OHM J
RV07	76011101	CHIP, 1/20W 100 OHM J
RV08	76011101	CHIP, 1/20W 100 OHM J
RV09	76011562	CHIP, 1/20W 5.6K OHM J
RV10	76011101	CHIP, 1/20W 100 OHM J
RV11	76011101	CHIP, 1/20W 100 OHM J
RV12	76011101	CHIP, 1/20W 100 OHM J
RV13	76011101	CHIP, 1/20W 100 OHM J
RV14	76011101	CHIP, 1/20W 100 OHM J
RV15	76011101	CHIP, 1/20W 100 OHM J
RV16	76011101	CHIP, 1/20W 100 OHM J
RV17	76011101	CHIP, 1/20W 100 OHM J
RV18	76011101	CHIP, 1/20W 100 OHM J
RV19	76011101	CHIP, 1/20W 100 OHM J
RV20	76011101	CHIP, 1/20W 100 OHM J
RV21	76011101	CHIP, 1/20W 100 OHM J
RV22	76011101	CHIP, 1/20W 100 OHM J

Location No.	Parts No.	Description
RV26	76011101	CHIP, 1/20W 100 OHM J
RV27	76011101	CHIP, 1/20W 100 OHM J
RV28	76011103	CHIP, 1/20W 10K OHM J
RV29	76011103	CHIP, 1/20W 10K OHM J
RV30	76019388	CHIP, 1/16W 10K OHM F
RV31	76019388	CHIP, 1/16W 10K OHM F
RV32	76019388	CHIP, 1/16W 10K OHM F
RV33	76989227	CHIP, 1/16W 5,1K OHM F
RV34	76989227	CHIP, 1/16W 5,1K OHM F
RV35	76989227	CHIP, 1/16W 5,1K OHM F
RV36	76019349	CHIP, 1/16W 1K OHM F
RV37	76019349	CHIP, 1/16W 1K OHM F
RV38	76019349	CHIP, 1/16W 1K OHM F
RV39	76011470	CHIP, 1/20W 47 OHM J
RV40	76011101	CHIP, 1/20W 100 OHM J
RV41	76011101	CHIP, 1/20W 100 OHM J
RV43	76011101	CHIP, 1/20W 100 OHM J
RV44	76011101	CHIP, 1/20W 100 OHM J
RV45	76871681	CHIP, 1/8W 680 OHM J
RV46	76871331	CHIP, 1/8W 330 OHM J
RV47	76011121	CHIP, 1/20W 120 OHM J
RV48	76011121	CHIP, 1/20W 120 OHM J
RV49	76871331	CHIP, 1/8W 330 OHM J
RV50	76011101	CHIP, 1/20W 100 OHM J
RV51	76011101	CHIP, 1/20W 100 OHM J
RV53	76011101	CHIP, 1/20W 100 OHM J
RV54	76011222	CHIP, 1/20W 2.2K OHM J
RV55	76011121	CHIP, 1/20W 120 OHM J
RV56	76011101	CHIP, 1/20W 100 OHM J
RV57	76011101	CHIP, 1/20W 100 OHM J
RV58	76871271	CHIP, 1/8W 270 OHM J
RV59	76871271	CHIP, 1/8W 270 OHM J
RV61	76011104	CHIP, 1/20W 100K OHM J
RV64	76011470	CHIP, 1/20W 47 OHM J
RV65	76011470	CHIP, 1/20W 47 OHM J
RV80	76872750	CHIP, 1/16W 75 OHM J
RV81	76872750	CHIP, 1/16W 75 OHM J
RV82	76872750	CHIP, 1/16W 75 OHM J
RV121	76872750	CHIP, 1/16W 75 OHM J
RV122	76872750	CHIP, 1/16W 75 OHM J
RV123	76872750	CHIP, 1/16W 75 OHM J
RV129	76011101	CHIP, 1/20W 100 OHM J
RV212	76872750	CHIP, 1/16W 75 OHM J
RV213	76872750	CHIP, 1/16W 75 OHM J
RV214	76872750	CHIP, 1/16W 75 OHM J
RV215	76872750	CHIP, 1/16W 75 OHM J
RV216	76872472	CHIP, 1/16W 4.7K OHM J
RV218	76872750	CHIP, 1/16W 75 OHM J
RV219	76872750	CHIP, 1/16W 75 OHM J
RV220	76872750	CHIP, 1/16W 75 OHM J
RV229	76872750	CHIP, 1/16W 75 OHM J
RV231	76011100	CHIP, 1/20W 10 OHM J
RV232	76011100	CHIP, 1/20W 10 OHM J
RV233	76011100	CHIP, 1/20W 10 OHM J
RV235	76872750	CHIP, 1/16W 75 OHM J
RV236	76872750	CHIP, 1/16W 75 OHM J
RV237	76872750	CHIP, 1/16W 75 OHM J
RV238	76872472	CHIP, 1/16W 4.7K OHM J
RV240	76872750	CHIP, 1/16W 75 OHM J
RV241	76872750	CHIP, 1/16W 75 OHM J
RV250	76872750	CHIP, 1/16W 75 OHM J
RV251	76872750	CHIP, 1/16W 75 OHM J
RY01	76011101	CHIP, 1/20W 100 OHM J
RY02	76011101	CHIP, 1/20W 100 OHM J
RY03	76011101	CHIP, 1/20W 100 OHM J
RY04	76871271	CHIP, 1/8W 270 OHM J
RY05	76871271	CHIP, 1/8W 270 OHM J
RY06	76871271	CHIP, 1/8W 270 OHM J
RY07	76011470	CHIP, 1/20W 47 OHM J
RY08	76011470	CHIP, 1/20W 47 OHM J
RY09	76011470	CHIP, 1/20W 47 OHM J
GC01	76000445	CHIP JUMPER, 1608TYPE
GC02	76000445	CHIP JUMPER, 1608TYPE
GC03	76000445	CHIP JUMPER, 1608TYPE
GC04	76000445	CHIP JUMPER, 1608TYPE
GC06	76000445	CHIP JUMPER, 1608TYPE

Location No.	Parts No.	Description
GJ413	76000445	CHIP JUMPER, 1608TYPE
GJ414	76000445	CHIP JUMPER, 1608TYPE
GJ603	76000445	CHIP JUMPER, 1608TYPE
GR02	76000445	CHIP JUMPER, 1608TYPE
GR03	76000445	CHIP JUMPER, 1608TYPE
GR25	76000445	CHIP JUMPER, 1608TYPE
GR26	76000445	CHIP JUMPER, 1608TYPE
GR27	76000445	CHIP JUMPER, 1608TYPE
GR28	76000445	CHIP JUMPER, 1608TYPE
GR101	76000445	CHIP JUMPER, 1608TYPE
GR102	76000445	CHIP JUMPER, 1608TYPE
GR103	76000445	CHIP JUMPER, 1608TYPE
GR501	76000445	CHIP JUMPER, 1608TYPE
GR605	76000445	CHIP JUMPER, 1608TYPE
GR610	76000445	CHIP JUMPER, 1608TYPE
GR611	76000445	CHIP JUMPER, 1608TYPE
GRC01	76000445	CHIP JUMPER, 1608TYPE
GRC02	76000445	CHIP JUMPER, 1608TYPE
GRC03	76000445	CHIP JUMPER, 1608TYPE
GRC04	76000445	CHIP JUMPER, 1608TYPE
GRC05	76000445	CHIP JUMPER, 1608TYPE
GRC06	76000445	CHIP JUMPER, 1608TYPE
GRC07	76000445	CHIP JUMPER, 1608TYPE
GRC08	76000445	CHIP JUMPER, 1608TYPE
GRC09	76000445	CHIP JUMPER, 1608TYPE
GRC10	76000445	CHIP JUMPER, 1608TYPE
GRC11	76000445	CHIP JUMPER, 1608TYPE
GRC12	76000445	CHIP JUMPER, 1608TYPE
GRC13	76000445	CHIP JUMPER, 1608TYPE
GRC14	76000445	CHIP JUMPER, 1608TYPE
GRR04	76000445	CHIP JUMPER, 1608TYPE
GRR05	76000445	CHIP JUMPER, 1608TYPE
GRR14	76000445	CHIP JUMPER, 1608TYPE
GRR15	76000445	CHIP JUMPER, 1608TYPE
GRR16	76000445	CHIP JUMPER, 1608TYPE
GRR44	76000445	CHIP JUMPER, 1608TYPE
GRV07	76000445	CHIP JUMPER, 1608TYPE
GRV08	76000445	CHIP JUMPER, 1608TYPE
GRV09	76000445	CHIP JUMPER, 1608TYPE
GRV10	76000445	CHIP JUMPER, 1608TYPE
GRV11	76000445	CHIP JUMPER, 1608TYPE
GRV12	76000445	CHIP JUMPER, 1608TYPE
GRV15	76000445	CHIP JUMPER, 1608TYPE
GRV16	76000445	CHIP JUMPER, 1608TYPE
GRV19	76000445	CHIP JUMPER, 1608TYPE
GRV33	76000445	CHIP JUMPER, 1608TYPE
GRV34	76000445	CHIP JUMPER, 1608TYPE
GRV35	76000445	CHIP JUMPER, 1608TYPE
GRV36	76000445	CHIP JUMPER, 1608TYPE
GRV37	76000445	CHIP JUMPER, 1608TYPE
GRV38	76000445	CHIP JUMPER, 1608TYPE
GRV39	76000445	CHIP JUMPER, 1608TYPE
GRV40	76000445	CHIP JUMPER, 1608TYPE
GRV41	76000445	CHIP JUMPER, 1608TYPE
GRV42	76000445	CHIP JUMPER, 1608TYPE
GRV43	76000445	CHIP JUMPER, 1608TYPE
GRV44	76000445	CHIP JUMPER, 1608TYPE
GRV51	76000445	CHIP JUMPER, 1608TYPE
GRV52	76000445	CHIP JUMPER, 1608TYPE
GRV53	76000445	CHIP JUMPER, 1608TYPE
GRY01	76000445	CHIP JUMPER, 1608TYPE
GRY02	76000445	CHIP JUMPER, 1608TYPE
GRY03	76000445	CHIP JUMPER, 1608TYPE
GRY04	76000445	CHIP JUMPER, 1608TYPE
GRY05	76000445	CHIP JUMPER, 1608TYPE
GRY06	76000445	CHIP JUMPER, 1608TYPE
GT01	76000445	CHIP JUMPER, 1608TYPE
GT02	76000445	CHIP JUMPER, 1608TYPE
COILS & TRANSFORMERS		
L101	23248398	COIL, CHOKE, TLN3278D
L102	23103828	INDUCTOR, BEAD, TEM2121M
L103	23103828	INDUCTOR, BEAD, TEM2121M
L104	23103828	INDUCTOR, BEAD, TEM2121M
L105	23277002	FERRITE CORE, ACM3225-102-2PT100
L190	23103828	INDUCTOR, BEAD, TEM2121M

Location No.	Parts No.	Description
L505	23289022	COIL, PEAKING, TRF4100AT
L820	23248491	COIL, CHOKE 26X13 108MMH 5A TLN3641AF
L821	23248491	COIL, CHOKE 26X13 108MMH 5A TLN3641AF
L824	23103330	FILTER, FERRITE CHOKE 3.5X5X2 TEM2014AH
L825	23103304	FERRITE CHOKE, TEM2011AA
L840	23289981	COIL, PEAKING, TRF4330AZ
L860	23103320	COIL, CHOKE, TEM2011
L862	23103320	COIL, CHOKE, TEM2011
L870	23103320	COIL, CHOKE, TEM2011
L871	23103320	COIL, CHOKE, TEM2011
L878	23248489	COIL, CHOKE COIL 1.5MMH 8A TLN3639AH
L880	23103304	FERRITE CHOKE, TEM2011AA
L881	23248388	COIL, CHOKE 9X11H 4.7MMHK 4.0A TLN3515AA
L883	23103304	FERRITE CHOKE, TEM2011AA
L884	23248387	COIL, CHOKE 9X11H 22MMHK 2.5A TLN3499AA
L886	23103304	FERRITE CHOKE, TEM2011AA
L8211	23103330	FILTER, FERRITE CHOKE 3.5X5X2 TEM2014AH
L8212	23103330	FILTER, FERRITE CHOKE 3.5X5X2 TEM2014AH
LC01	23103828	INDUCTOR, BEAD, TEM2121M
LC02	23103828	INDUCTOR, BEAD, TEM2121M
LC03	23103828	INDUCTOR, BEAD, TEM2121M
LC04	23103828	INDUCTOR, BEAD, TEM2121M
LC05	23103828	INDUCTOR, BEAD, TEM2121M
LC13	23103828	INDUCTOR, BEAD, TEM2121M
LC21	23103828	INDUCTOR, BEAD, TEM2121M
LC22	23103828	INDUCTOR, BEAD, TEM2121M
LC23	23103828	INDUCTOR, BEAD, TEM2121M
LC24	23103828	INDUCTOR, BEAD, TEM2121M
LC25	23103828	INDUCTOR, BEAD, TEM2121M
LC26	23103828	INDUCTOR, BEAD, TEM2121M
LC27	23103828	INDUCTOR, BEAD, TEM2121M
LC28	23103828	INDUCTOR, BEAD, TEM2121M
LC29	23103828	INDUCTOR, BEAD, TEM2121M
LC30	23103828	INDUCTOR, BEAD, TEM2121M
LC31	23103238	INDUCTOR, BEAD, TEM2142AD
LC32	23103238	INDUCTOR, BEAD, TEM2142AD
LC33	23103238	INDUCTOR, BEAD, TEM2142AD
LC51	23103239	INDUCTOR, BEAD, TEM2143AD
LC52	23103239	INDUCTOR, BEAD, TEM2143AD
LC53	23103239	INDUCTOR, BEAD, TEM2143AD
LC54	23103239	INDUCTOR, BEAD, TEM2143AD
LD203	23103828	INDUCTOR, BEAD, TEM2121M
LE10	23289980	COIL, PEAKING, TRF4220AZ
LE30	23248456	COIL, CHOKE, TLN3540AH
LE31	23289980	COIL, PEAKING, TRF4220AZ
LE32	23248432	COIL, CHOKE, TLN3499AH
LE60	23248456	COIL, CHOKE, TLN3540AH
LE61	23289980	COIL, PEAKING, TRF4220AZ
LE62	23248432	COIL, CHOKE, TLN3499AH
LE90	23248456	COIL, CHOKE, TLN3540AH
LE91	23289980	COIL, PEAKING, TRF4220AZ
LE92	23248432	COIL, CHOKE, TLN3499AH
LT01	23289028	COIL, PEAKING, TRF4101AT
LV02	23277002	FERRITE CORE, ACM3225-102-2PT100
LV03	23277002	FERRITE CORE, ACM3225-102-2PT100
LV15	23289022	COIL, PEAKING, TRF4100AT
⚠ T801	23211904	COIL, LINE FILTER 35X34H 10MH TRF3255AF
⚠ T802	23211904	COIL, LINE FILTER 35X34H 10MH TRF3255AF
⚠ T820	23217799	TRANSFORMER, CONVERTER TPW3564AS
⚠ T822	23248490	COIL, CHOKE EI25 5.3MMH 8.0A TLN3640AH
⚠ T840	23217800	TRANSFORMER, CONVERTER TPW3565AS
⚠ T860	23217802	TRANSFORMER, CONVERTER TPW3567AS
⚠ T880	23217801	TRANSFORMER, CONVERTER TPW3566AS
ZA01	23103840	FERRITE CORE, TFE1013
ZA02	23103778	FERRITE CORE, TFE1008
ZA03	23103914	FERRITE CORE, TFE1015AD
ZA04	23103914	FERRITE CORE, TFE1015AD
ZA05	23103839	FERRITE CORE, TFE1012
ZA06	23103914	FERRITE CORE, TFE1015AD
ZA08	23103348	CORE, FERRITE CORE AAA
SEMICONDUCTORS		
IC414	23085938	IC, BU4242G-TR
Q101	23205506	TRANSISTOR, 2SC4081 Q
Q501	23085049	IC, TB1274BFG(DRY)
Q504	23205507	TRANSISTOR, 2SA1576A Q

Location No.	Parts No.	Description
Q610	23085826	IC, 2CH POWER IC HZIP-12P TA8246AHQ(5)
Q612	23205443	TRANSISTOR, 2SA1162-Y(F)
Q615	23205325	TRANSISTOR, RN2404(F)
Q620	23205506	TRANSISTOR, 2SC4081 Q
Q621	23205506	TRANSISTOR, 2SC4081 Q
Q622	23205506	TRANSISTOR, 2SC4081 Q
Q627	23205325	TRANSISTOR, RN2404(F)
Q664	23205506	TRANSISTOR, 2SC4081 Q
Q665	23205325	TRANSISTOR, RN2404(F)
Q671	23205302	TRANSISTOR, 2SC3326-B(F)
Q672	23205302	TRANSISTOR, 2SC3326-B(F)
Q812	23205506	TRANSISTOR, 2SC4081 Q
⚠ Q813	23000823	IC, PHOTO COUPLER, TLP421F(GR)
Q814	23205506	TRANSISTOR, 2SC4081 Q
Q815	23205506	TRANSISTOR, 2SC4081 Q
Q816	23205506	TRANSISTOR, 2SC4081 Q
Q820	23135094	IC, PFC 7PIN SRX2039
⚠ Q821	23000823	IC, PHOTO COUPLER, TLP421F(GR)
Q822	23205339	TRANSISTOR, 2SC2655-Y(F)
Q840	23135083	IC, HYBRID VDSS=800V
⚠ Q841	23000823	IC, PHOTO COUPLER, TLP421F(GR)
Q842	23085389	IC, NJM431L
Q860	23135066	IC, STRZ4479
⚠ Q862	23000823	IC, PHOTO COUPLER, TLP421F(GR)
⚠ Q863	23000823	IC, PHOTO COUPLER, TLP421F(GR)
Q864	23205339	TRANSISTOR, 2SC2655-Y(F)
Q870	23085389	IC, NJM431L
Q880	23135072	IC, STRW6765
⚠ Q881	23000823	IC, PHOTO COUPLER, TLP421F(GR)
Q882	23085389	IC, NJM431L
Q4100	23085635	TRANSISTOR, 2SC3437-Y(TE85L,F)
Q4101	23085635	TRANSISTOR, 2SC3437-Y(TE85L,F)
Q4102	23085635	TRANSISTOR, 2SC3437-Y(TE85L,F)
Q4103	23085635	TRANSISTOR, 2SC3437-Y(TE85L,F)
Q8191	23205506	TRANSISTOR, 2SC4081 Q
Q8230	23205328	TRANSISTOR, RN1405(F)
Q8231	23205506	TRANSISTOR, 2SC4081 Q
Q8310	23205328	TRANSISTOR, RN1405(F)
Q8311	23205506	TRANSISTOR, 2SC4081 Q
Q8312	23205506	TRANSISTOR, 2SC4081 Q
Q8390	23205506	TRANSISTOR, 2SC4081 Q
⚠ Q8391	23000823	IC, PHOTO COUPLER, TLP421F(GR)
Q8601	23205329	TRANSISTOR, RN1404(F)
Q8602	23205506	TRANSISTOR, 2SC4081 Q
Q8701	23205506	TRANSISTOR, 2SC4081 Q
Q8702	23205329	TRANSISTOR, RN1404(F)
Q8703	23205328	TRANSISTOR, RN1405(F)
Q8704	23085338	IC, BD5245G-TR
Q8801	23205329	TRANSISTOR, RN1404(F)
Q8802	23205329	TRANSISTOR, RN1404(F)
QB04	23205463	TRANSISTOR, 2SC2712-Y(TE85L,F)
QB07	23205463	TRANSISTOR, 2SC2712-Y(TE85L,F)
QD80	23085555	IC, PQ05RD11J00H
QD207	23085991	IC, TMP87C809BMG-6EJ8
QD208	23085434	IC, RESET 4.3V SOT-25 PST9143NR
QD209	23205330	TRANSISTOR, RN1403(F)
QE01	23205376	TRANSISTOR, 2SC5343-Y(BULK)
QE02	23205376	TRANSISTOR, 2SC5343-Y(BULK)
QE03	23205315	TRANSISTOR, RN1206(F)
QE10	23135077	IC, SI-3090CA
QE11	23205315	TRANSISTOR, RN1206(F)
QE30	23085397	IC, SI-8033SS
QE35	23085836	IC, VO=1.5V-15V 1A ON/OFF 5PIN PQ150VB01FZH
QE60	23085381	IC, SI-8050SS
QE65	23135076	IC, SI-3050C
QE90	23085381	IC, SI-8050SS
QE91	23205376	TRANSISTOR, 2SC5343-Y(BULK)
QE92	23205376	TRANSISTOR, 2SC5343-Y(BULK)
QE93	23205315	TRANSISTOR, RN1206(F)
QE95	23205442	TRANSISTOR, 2SC3852
QR01	23085536	IC, TC7S86F
QR03	23318981	IC, MC14053BF
QR20	23205507	TRANSISTOR, 2SA1576A Q
QS01	23009916	IC, MM1631AJBE
QS02	23009614	IC, CD4053BNSR
QS03	23205302	TRANSISTOR, 2SC3326-B(F)

Location No.	Parts No.	Description
QS04	23205302	TRANSISTOR, 2SC3326-B(F)
QS05	23205325	TRANSISTOR, RN2404(F)
QS06	23205302	TRANSISTOR, 2SC3326-B(F)
QS07	23205302	TRANSISTOR, 2SC3326-B(F)
QS08	23205506	TRANSISTOR, 2SC4081 Q
QS09	23205506	TRANSISTOR, 2SC4081 Q
QS10	23205302	TRANSISTOR, 2SC3326-B(F)
QS11	23205302	TRANSISTOR, 2SC3326-B(F)
QS12	23085576	IC, OP AMP, BA4558F
QS14	23205302	TRANSISTOR, 2SC3326-B(F)
QS18	23205302	TRANSISTOR, 2SC3326-B(F)
QS19	23205506	TRANSISTOR, 2SC4081 Q
QS20	23205506	TRANSISTOR, 2SC4081 Q
QS21	23205506	TRANSISTOR, 2SC4081 Q
QS31	23085576	IC, OP AMP, BA4558F
QS41	23205506	TRANSISTOR, 2SC4081 Q
QS43	23205506	TRANSISTOR, 2SC4081 Q
QS52	23205463	TRANSISTOR, 2SC2712-Y(TE85L,F)
QS108	23205506	TRANSISTOR, 2SC4081 Q
QT01	23205507	TRANSISTOR, 2SA1576A Q
QT02	23205506	TRANSISTOR, 2SC4081 Q
QT03	23205507	TRANSISTOR, 2SA1576A Q
QT04	23085392	IC, MM1501XN
QT05	23205507	TRANSISTOR, 2SA1576A Q
QT06	23205402	TRANSISTOR, DTC144EUA
QV01	23009940	IC, MM1630AQ
QV03	23205506	TRANSISTOR, 2SC4081 Q
QV04	23205506	TRANSISTOR, 2SC4081 Q
QV06	23205506	TRANSISTOR, 2SC4081 Q
QV07	23205506	TRANSISTOR, 2SC4081 Q
QV10	23009418	IC, MM1505XNRE
QV11	23009418	IC, MM1505XNRE
QV12	23009418	IC, MM1505XNRE
QY01	23205506	TRANSISTOR, 2SC4081 Q
QY02	23205506	TRANSISTOR, 2SC4081 Q
QY03	23205506	TRANSISTOR, 2SC4081 Q
D607	23357802	DIODE, ZENER, MA8330-M
D612	23362140	DIODE, KDS160-RTK
D613	23362140	DIODE, KDS160-RTK
D614	23362140	DIODE, KDS160-RTK
D617	23362140	DIODE, KDS160-RTK
D618	23362140	DIODE, KDS160-RTK
D619	23362140	DIODE, KDS160-RTK
D640	23362140	DIODE, KDS160-RTK
D641	23362140	DIODE, KDS160-RTK
D674	23362140	DIODE, KDS160-RTK
D675	23362140	DIODE, KDS160-RTK
D809	76000656	VARISTOR, TNR15G471K
D811	23357841	DIODE, ZENER, MTZJ6.8A
D815	23357692	DIODE, ZENER, RD2.0ESA B2
D816	23357738	DIODE, ZENER, MA8047-L
D819	23357718	THYRISTOR, SF0R3G42(N,G5H1)
D820	23357913	DIODE, RBV-1506, LF-A
D821	23362240	DIODE, VRM=1200V IF(AV)=3A FMC-26UAR
D822	23362220	DIODE, VRM=600V IF=5A FMX-G16S
D823	23362223	DIODE, VRM=600V IF=1.2A DO201AD :RM3A,LF014-102
D825	23357899	DIODE, ZENER, MTZJ33A
D826	23357513	DIODE, EU2A
D828	76000656	VARISTOR, TNR15G471K
D841	23362221	DIODE, VRM=1000V 1.0A EM1C,LF-F7
D842	23362221	DIODE, VRM=1000V 1.0A EM1C,LF-F7
D843	23357854	DIODE, ZENER, MTZJ10B
D844	23357837	DIODE, ZENER, MTZJ5.6B
D845	23357510	DIODE, AG01
D846	23357513	DIODE, EU2A
D860	23357850	DIODE, ZENER, MTZJ9.1A
D861	23357893	DIODE, ZENER, MTZJ27C
D862	23357893	DIODE, ZENER, MTZJ27C
D863	23357854	DIODE, ZENER, MTZJ10B
D864	23357854	DIODE, ZENER, MTZJ10B
D865	23357513	DIODE, EU2A
D866	23357853	DIODE, ZENER, MTZJ10A
D870	23362219	DIODE, VRM=100V IF=20A FME-220A(023-108)
D871	23362219	DIODE, VRM=100V IF=20A FME-220A(023-108)
D874	23362219	DIODE, VRM=100V IF=20A FME-220A(023-108)
D880	23357513	DIODE, EU2A

Location No.	Parts No.	Description
D881	23357104	DIODE, 1SS244
D882	23357104	DIODE, 1SS244
D883	23357837	DIODE, ZENER, MTZJ5.6B
D884	23362219	DIODE, VRM=100V IF=20A FME-220A(023-108)
D885	23357513	DIODE, EU2A
D886	23357408	DIODE, FMX-12S(023-108)
D887	23357900	DIODE, ZENER, MTZJ33B
D888	23357848	DIODE, ZENER, MTZJ8.2B
D889	23357848	DIODE, ZENER, MTZJ8.2B
D890	23357847	DIODE, ZENER, MTZJ8.2A
D891	23357847	DIODE, ZENER, MTZJ8.2A
D892	23357892	DIODE, ZENER, MTZJ27B
D8230	23357792	DIODE, ZENER 22.80-23.97 MA8240-L, TX
D8231	23357703	DIODE, 1SS355
D8232	23357745	DIODE, ZENER, MA8056-M
D8271	23357697	DIODE, 1SS133
D8272	23357910	DIODE, ZENER, MTZJ39D
D8273	23357883	DIODE, ZENER, MTZJ22A
D8274	23357883	DIODE, ZENER, MTZJ22A
D8310	23357703	DIODE, 1SS355
D8311	23357745	DIODE, ZENER, MA8056-M
D8312	23357703	DIODE, 1SS355
D8313	23357762	DIODE, ZENER, MA8091-M
D8390	23357889	DIODE, ZENER, MTZJ24C
D8391	23357890	DIODE, ZENER, MTZJ24D
D8401	23357703	DIODE, 1SS355
D8402	23357703	DIODE, 1SS355
D8403	23357703	DIODE, 1SS355
D8404	23357703	DIODE, 1SS355
D8601	23357703	DIODE, 1SS355
D8602	23357731	DIODE, ZENER, MA8033-H
D8701	23357703	DIODE, 1SS355
D8702	23357703	DIODE, 1SS355
D8705	23357894	DIODE, ZENER, MTZJ27D
D8706	23357703	DIODE, 1SS355
D8801	23357703	DIODE, 1SS355
D8802	23357703	DIODE, 1SS355
D8803	23357778	DIODE, ZENER, MA8150-M
D8804	23357703	DIODE, 1SS355
D8805	23357745	DIODE, ZENER, MA8056-M
DA011	23357751	DIODE, ZENER, MA8068-M
DA061	23357751	DIODE, ZENER, MA8068-M
DA071	23357751	DIODE, ZENER, MA8068-M
DB01	23358606	DIODE, LED RED, SLR-56VC3FPQ
DB02	23358605	DIODE, LED GREEN, SLR-56MC3FPQR
DB20	23357406	DIODE, ZENER, UDZS5.6B
DB22	23357703	DIODE, 1SS355
DB23	23357703	DIODE, 1SS355
DD202	23362140	DIODE, KDS160-RTK
DD204	23362140	DIODE, KDS160-RTK
DD206	23362140	DIODE, KDS160-RTK
DE01	23357706	DIODE, AK04
DE02	23357706	DIODE, AK04
DE03	23357823	DIODE, ZENER, MTZJ3.6A
DE07	23357821	DIODE, ZENER, MTZJ3.3A
DE30	23357810	DIODE, FMB-G14L
DE31	23357697	DIODE, 1SS133
DE32	23357829	DIODE, ZENER, MTZJ4.3C
DE60	23357810	DIODE, FMB-G14L
DE61	23357697	DIODE, 1SS133
DE62	23357845	DIODE, ZENER, MTZJ7.5B
DE90	23357810	DIODE, FMB-G14L
DE91	23357697	DIODE, 1SS133
DE92	23357912	DIODE, ZENER, MTZJ6.2C
DE97	23357895	DIODE, ZENER, MTZJ30A
DE99	23357840	DIODE, ZENER, MTZJ6.2B
DR70	23362140	DIODE, KDS160-RTK
DR71	23362140	DIODE, KDS160-RTK
DS10	23357757	DIODE, ZENER, MA8039-H
DS13	23362140	DIODE, KDS160-RTK
DS16	23357744	DIODE, ZENER, MA8056-L
DV01	23357762	DIODE, ZENER, MA8091-M
DV02	23357762	DIODE, ZENER, MA8091-M
DV03	23357762	DIODE, ZENER, MA8091-M
DV04	23357762	DIODE, ZENER, MA8091-M
DV05	23357762	DIODE, ZENER, MA8091-M

Location No.	Parts No.	Description
DV06	23357762	DIODE, ZENER, MA8091-M
DV07	23357762	DIODE, ZENER, MA8091-M
DV08	23357762	DIODE, ZENER, MA8091-M
DV09	23357762	DIODE, ZENER, MA8091-M
DV10	23357762	DIODE, ZENER, MA8091-M
DV11	23357762	DIODE, ZENER, MA8091-M
DV12	23357762	DIODE, ZENER, MA8091-M
DV13	23357762	DIODE, ZENER, MA8091-M
DV14	23357762	DIODE, ZENER, MA8091-M
DV15	23357762	DIODE, ZENER, MA8091-M
DV16	23357762	DIODE, ZENER, MA8091-M
DV17	23357762	DIODE, ZENER, MA8091-M
DV18	23357762	DIODE, ZENER, MA8091-M
DV19	23357762	DIODE, ZENER, MA8091-M
DV20	23357762	DIODE, ZENER, MA8091-M
DV21	23357762	DIODE, ZENER, MA8091-M
DV24	23357762	DIODE, ZENER, MA8091-M
DV30	23362140	DIODE, KDS160-RTK
DV31	23362140	DIODE, KDS160-RTK
DV32	23362140	DIODE, KDS160-RTK
DV33	23362140	DIODE, KDS160-RTK
DV34	23362140	DIODE, KDS160-RTK
DV35	23362140	DIODE, KDS160-RTK
KB01	23009710	REMOCON RECEIVER, GP1UE281RK
MISCELLANEOUS		
A245	#1 23717214	SCREW, BITTB3X12SBN
A246	#1 23717267	SCREW, BITTB4X16 SBN
A360	#2 23717257	SCREW, PP5X8+SW+W ECO
A370	23717267	SCREW, BITTB4X16 SBN
A375	#2 23717214	SCREW, BITTB3X12SBN
A380	23717214	SCREW, BITTB3X12SBN
A385	23717219	SCREW, PP3X8+SW+W SBN
A410	23717219	SCREW, PP3X8+SW+W SBN
A411	23717267	SCREW, BITTB4X16 SBN
A440	23738074	SCREW, PP 5X16 SW+W SBN
⚠ B001	#1 23301643	DISPLAY, 05SHP32 LQ315T3LZ21
⚠	#2 23301659	DISPLAY, G5SHP37 LQ370T3LZ41
B002	**23148448**	**DVB T MODULE, 16PING08**
B101	#2 23059224	CHASSIS FRAME, CHASSIS FR
B214	#1 23469396	INSULATOR, INSULATOR POWER
B215	23469405	INSULATOR, INSULATOR AC
B310	23717219	SCREW, PP3X8+SW+W SBN
B311	23717214	SCREW, BITTB3X12SBN
B321	23717214	SCREW, BITTB3X12SBN
⚠ F801	23144406	FUSE, CERA 5X20 250V 6.3A
F801A	23165433	FUSE HOLDER, 5.2
F801B	23165433	FUSE HOLDER, 5.2
⚠ F820	23144378	FUSE, RADIAL LEAD SUB-MINIATUR 250V 2A
⚠ F870	23144378	FUSE, RADIAL LEAD SUB-MINIATUR 250V 2A
H001B	23368945	CABLE, PAL
J207A	23960136	ADHESIVE, SILICONE, TSE3843-W
MJ22	23389359	CABLE, FFC 0.5 50P L70 GOLD
MJ60	23389359	CABLE, FFC 0.5 50P L70 GOLD
MV99	23389333	FFC, 20706SFWR-P=1.0-L1-19-137 P1.0-19P-145(WR)
MZ01	23368908	CABLE, LVDS30P170MM SHP T2 E30-X30
MZ10	23103348	CORE, FERRITE CORE AAA
P602A	23713938	CONNECTOR, CONNECT B5B-PH-K-S(LF)
P661	23023302	EARPHONE JACK
P662	23023302	EARPHONE JACK
⚠ P801	23372353	POWER CORD, UK 250V3A FL/FUSE13 AC250V 3A FUSE13
⚠ P801A	23713702	PLUG, 2P 11.88MM W VT
P803A	23713764	PLUG, 13P
P803B	23713764	PLUG, 13P
P807A	23713764	PLUG, 13P
P807B	23713764	PLUG, 13P
P809A	23713763	PLUG, NP 2.5MM G, B12B-EH-F1A
P809B	23713763	PLUG, NP 2.5MM G, B12B-EH-F1A
P810A	23713759	PLUG, 8P 2.5MM G, B8B-EH-F1-TV4
P810B	23713759	PLUG, 8P 2.5MM G, B8B-EH-F1-TV4
P860	23713942	CONNECTOR, CONNECT B10B-PH-K-S(LF)
P861	23713942	CONNECTOR, CONNECT B10B-PH-K-S(LF)
PG01	23165495	TERMINAL, EARTH PHI3 MET31-0332
PG03	23165495	TERMINAL, EARTH PHI3 MET31-0332
PH01	23165460	TERMINAL, SINGLE ISA01-A
PH02	23165460	TERMINAL, SINGLE ISA01-A

Signal (Scaler) Board - Service part Number

Series	Model	PANEL	Part Number (Service)	OPT1	OPT2	OPT3	OPT4
WL56	32WL56P(B)	SHP-32	23587821	35	00	0A	25
		AUO-32	23590399			0A	45
	32WL56P(G)	SHP-32	23587821			00	25
		AUO-32	23590400			00	45
	37WL56P(B)	LPL-37	23587823			0A	16
		AUO-37	23590401			0A	46
	37WL56P(G)	LPL-37	23587823			00	16
		AUO-37	23590402			00	46
	27WL56P(B)	CMO-27	23587825			0A	34
	27WL56P(G)	CMO-27	23587825			00	34
WL/WLT58	32WL58P(B)	SHP-32	23587827	71	00	0A	25
		LPL-32	23590403			0A	15
	32WL58P(G)	SHP-32	23587827			00	25
		LPL-32	23590404			00	15
	37WL58P(B)	SHP-37	23587829			0A	26
		LPL-37	23590405			0A	16
	37WL58P(G)	SHP-37	23587829			00	26
		LPL-37	23590406			00	16
	42WL58P(B)	LPL-42	23587831			0A	17
	42WL58P(G)	LPL-42	23587831			00	17
	32WLT58	SHP-32	23587833			2A	25
		LPL-32	23590407			2A	15
	37WLT58	SHP-37	23587834			2A	26
		LPL-37	23590408			2A	16
	42WLT58	LPL-42	23587835			2A	17

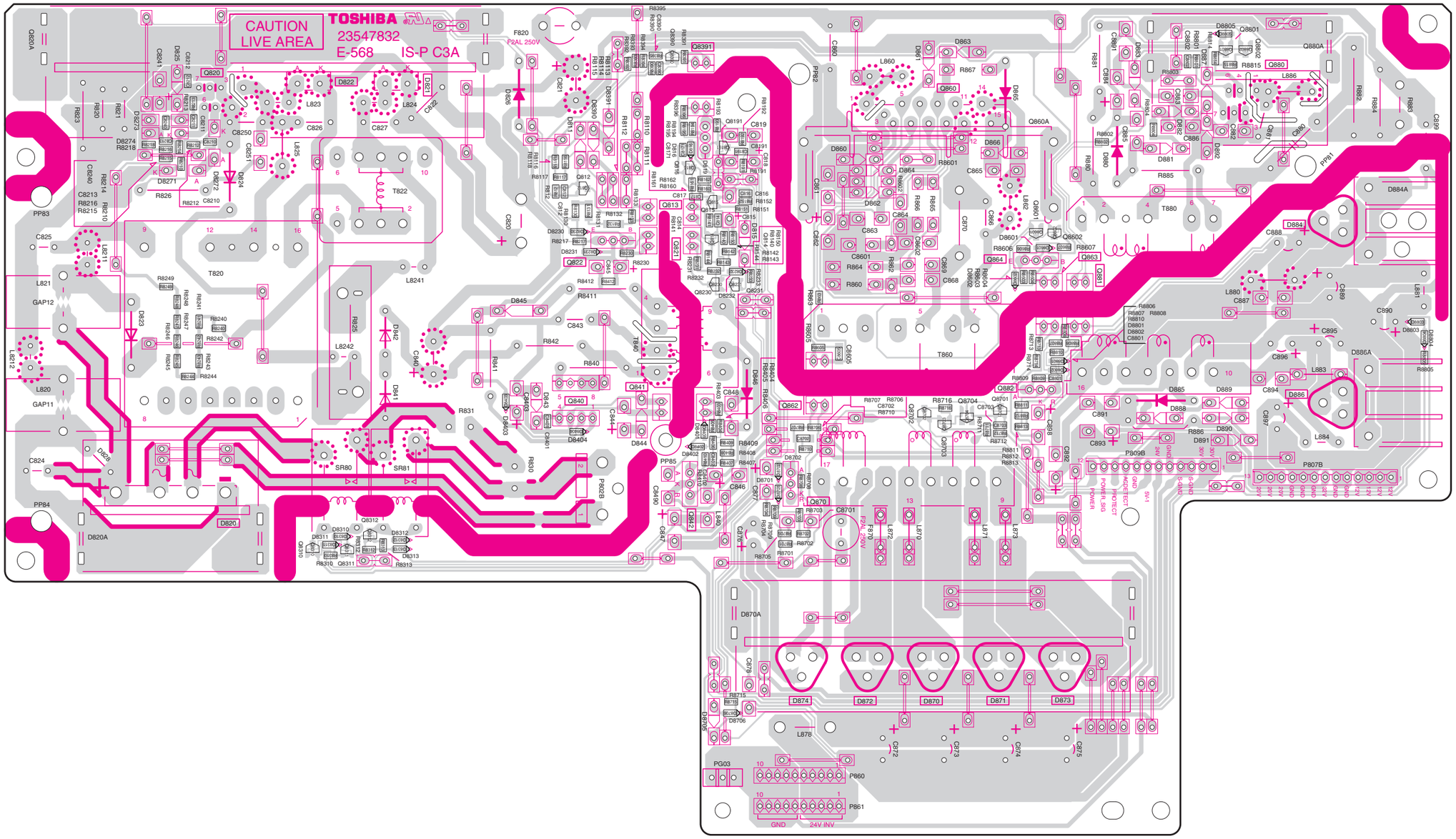
Key to Panel Type:

SHP= Sharp
AUO=AUO
LPL=LG Philips
CMO=Chi Mei

Location No.		Parts No.	Description
PH03		23165460	TERMINAL, SINGLE ISA01-A
PJ21A		23713934	CONNECTOR, 2MM 3P S WHT B3B-PH-K-S(LF)
PJ22		23757180	CONNECTOR, FH12-50S-0.5SV(55)
PJ22A		23757176	CONNECTOR, IRS 9637S-50Y902 GLD
PJ41		23713943	CONNECTOR, CONNECT B11B-PH-K-S(LF)
PJ41A		23713943	CONNECTOR, CONNECT B11B-PH-K-S(LF)
PJ42		23713939	CONNECTOR, CONNECT B6B-PH-K-S(LF)
PJ42C		23713948	CONNECTOR, CONNECT S6B-PH-K-S(LF)
PJ60		23757180	CONNECTOR, FH12-50S-0.5SV(55)
PJ60A		23757176	CONNECTOR, IRS 9637S-50Y902 GLD
PJ610		23713819	SOCKET, TWG-P23X-A1
PJ930		23713574	CONNECTOR, 7P TOPTYPE BM07B-SRSS-TBT(LF)
PL101		23713755	PLUG, 4P 2.5MM G, B4B-EH-F1-TV4
PL106		23713758	PLUG, 7P 2.5MM G, B7B-EH-F1-TV4
PL201		23713754	PLUG, 3P 2.5MM G, B3B-EH-F1-TV4
PL202		23713754	PLUG, 3P 2.5MM G, B3B-EH-F1-TV4
PP01	#1	23845859	HOLDER, WIRE, PVC-C0AT, L=70MM
PP02		23974994	BAND, KESSOKU
PP07		23528292	HOLDER, ABMM-A-D, (NO SERVICE)
PP08		23974994	BAND, KESSOKU
PP12		23974994	BAND, KESSOKU
PP30		23748087	WASHER, WASHER 10X4.2XT0.3TPO
PS01		23023440	JACK, PIN RA 2P SMK LPR8021-0110F
PS02		23023440	JACK, PIN RA 2P SMK LPR8021-0110F
PV01		23023271	JACK, PIN 6/6P JALCO, YKC21-4673N
PV02		23023272	JACK, PIN 2P YKC21-4112N
PV25A		23713944	CONNECTOR, CONNECT B12B-PH-K-S(LF)
PV60		23365275	JACK, PHONO 3P V-L-R YKC21
PV61		23023300	JACK, Y/C YKF51-5560
PV90		23713710	SOCKET, D-SUB 15P, KRD-8622
SA011		23344505	SWITCH, PUSH 1C1P
SA021		23344505	SWITCH, PUSH 1C1P
SA031		23344505	SWITCH, PUSH 1C1P
SA041		23344505	SWITCH, PUSH 1C1P
SA051		23344505	SWITCH, PUSH 1C1P
SA061		23344505	SWITCH, PUSH 1C1P
SA071		23344505	SWITCH, PUSH 1C1P
SA081		23344505	SWITCH, PUSH 1C1P
⚠ SR80		23146588	RELAY, DLS5D1-O(M) 0.15W
⚠ SR81		23146584	RELAY, DC12V, TV5, DG-3
W661		23351321	SPEAKER, ASSY, 6X12+TW 8-OHM 10 SPK-1469AO
X501		23153612	CRYSTAL, 16.200 25PPM 25OHM
XD02		23153504	CERAMIC RESONATOR, 8.00MHZ 25OHM
PC BOARD ASSEMBLIES			
✻ U001		PD2238A1	SIGNAL (scaler) see previous page
✻ U002A		75001532	PC BOARD ASSY, POWER PD2171A1
✻ U002B		75001533	PC BOARD ASSY, AC IN PD2171A2
✻ U003A		75001735	PC BOARD ASSY, PD2172B1 TN AV
✻ U003B		75001736	PC BOARD ASSY, PD2172B2 FRONT AV
✻ U003C		75001739	PC BOARD ASSY, PD2172B3 RMT LED
✻ U003E		75001741	PC BOARD ASSY, PD2172B5 PC HDMI
✻ U003F		75001743	PC BOARD ASSY, PD2172B6 KEY
✻ U004		75001771	PC BOARD ASSY, PD2173D1 LOW B
✻ U005		75001745	PC BOARD ASSY, PD2174A1 INTERFACE
✻ B002		**23148448**	**DVB T MODULE, 16PING08**
TUNER			
H001		23321550	TUNER, TIF EU HOR 61 IEC PAL+L ENGF7304GF
ACCESSORIES			
A701	#1	23015116	CARTON, CASE
A701A	#2	23015120	CARTON, TOP CASE
A701B	#2	23015121	CARTON, BOTTOM CASE
A702A	#1	23580007	PACKING, TOP PACKING
	#2	23580010	PACKING, TOP PACKING
A702B	#1	23580008	PACKING, BOTTOM PACKING
	#2	23580011	PACKING, BOTTOM PACKING
A705	#2	23518043	PACKING, JOINT, 32Z5P
⚠ Y101		23566748	OWNERS MANUAL, ENGLISH 32WLT58;ENG
Y130		23306637	REMOCON HAND UNIT IR, DTVPAL CT-90240
Y170		23845800	HOLDER, WIRE, NYLON66 D6.8
CABINET PARTS			
A201	#1	23533631	COVER, FRONT BEZEL ASSY
	#2	23533645	COVER, FRONT BEZEL ASSY
A315	#1	23533456	COVER, BACK CENTER COVER
	#2	23533483	COVER, BACK CENTER COVER
A320		23940438	PIECE, FRONT AV ASSY
A340		23940522	PIECE CONTROL HOLDER ASSY
⚠ A401	#1	23533452	COVER, BACK COVER
⚠	#2	23533479	COVER, BACK COVER ASSY
A420	#1	23436880	FOOT, STAND ASSY
	#2	23436882	FOOT, STAND ASSY
A445	#1	23533889	COVER, CABLE COVER BOTTOM ASSY
	#2	23533960	COVER, BC BOTTOM COVER
A450	#1	23533454	COVER, CABLE COVER SIDE
	#2	23533481	COVER, BC SIDE COER

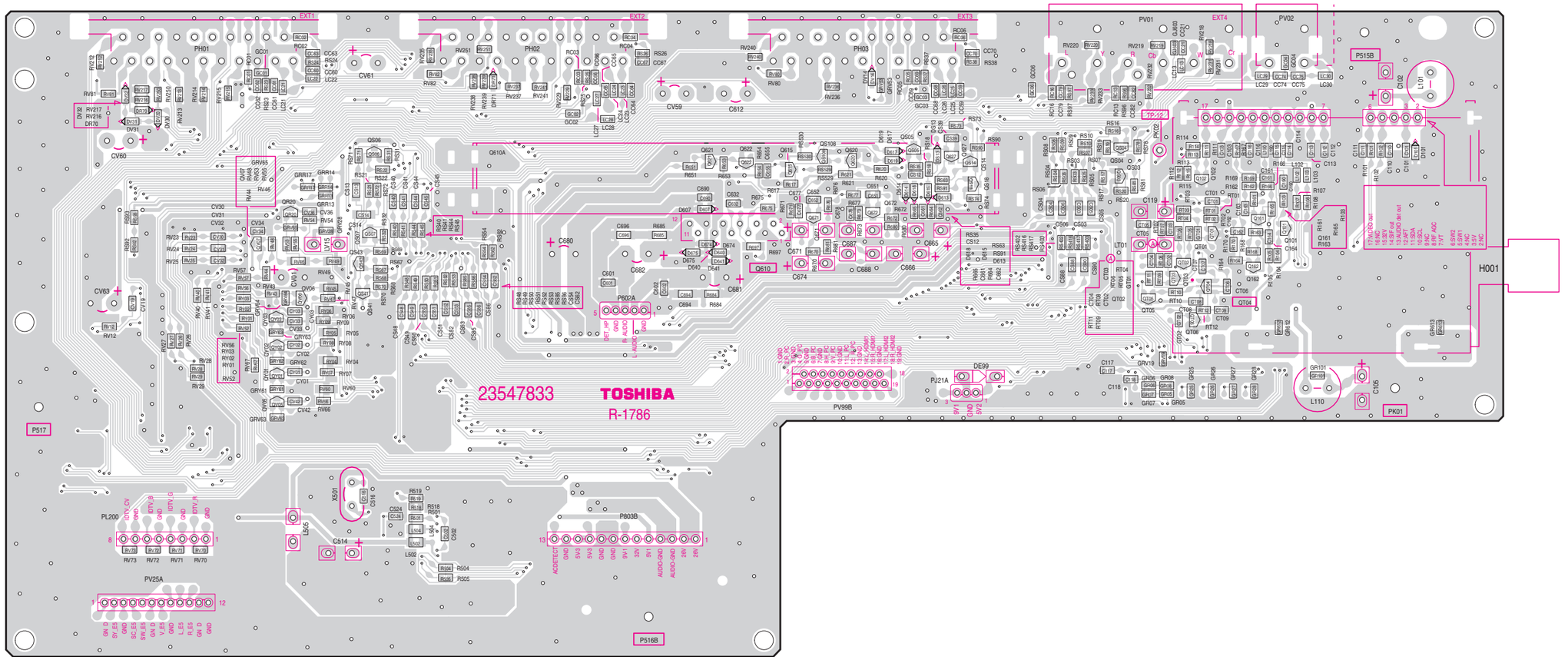
POWER BOARD PD2171A1 (U002A)

BOTTOM (FOIL) SIDE



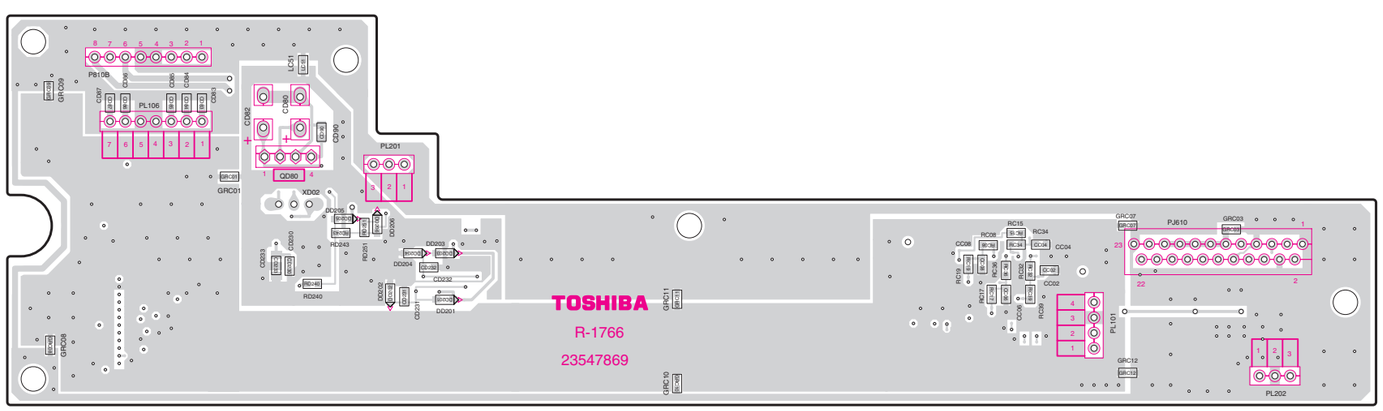
TN AV BOARD PD2172B1 (U003A)

BOTTOM (FOIL) SIDE



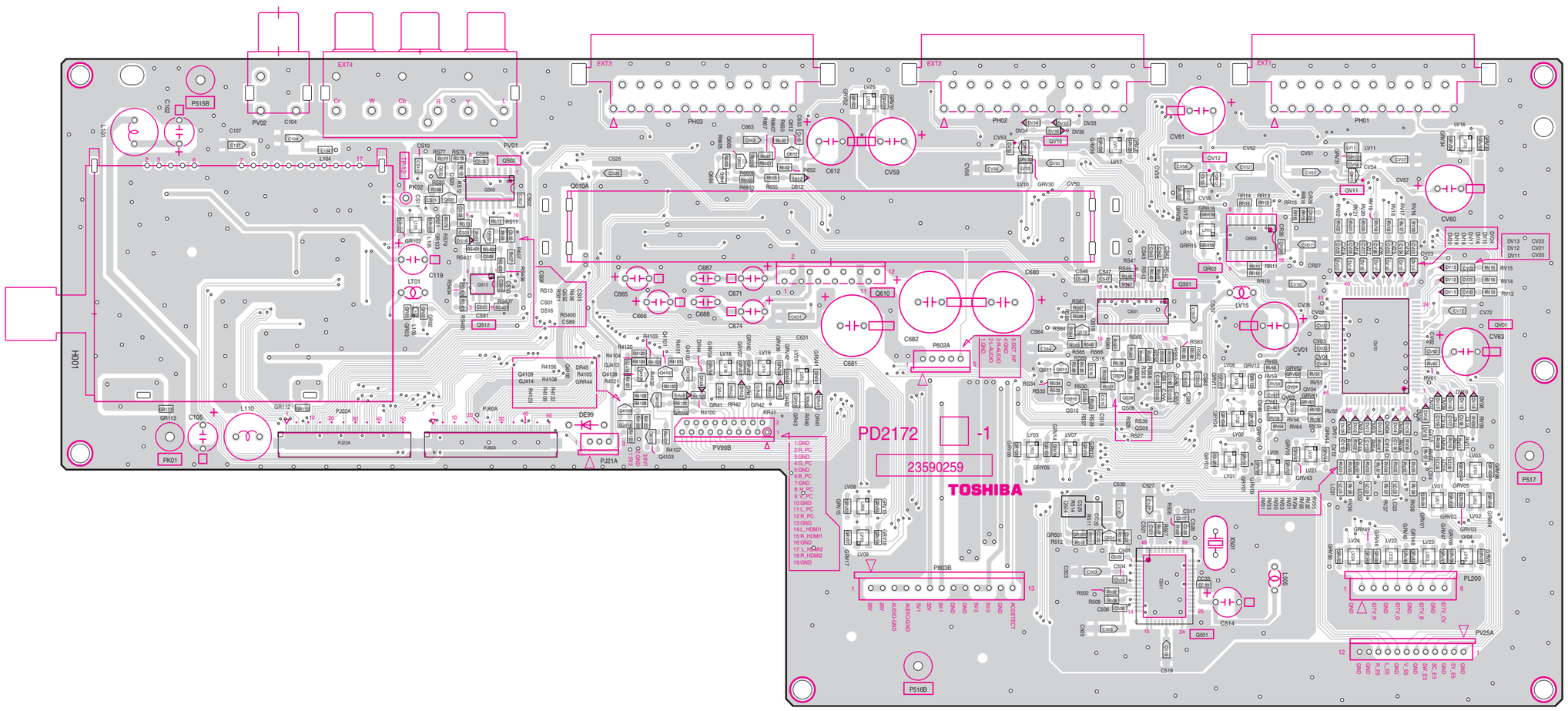
INTERFACE BOARD PD2174A1 (U005)

BOTTOM (FOIL) SIDE



TN AV BOARD PD2172B1 (U003A)

TOP (COMPONENT) SIDE

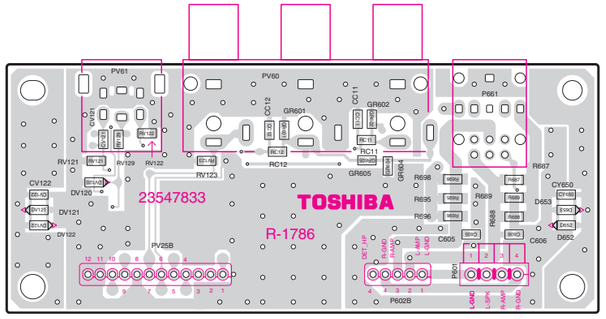


INTERFACE BOARD PD2174A1 (U005)

TOP (COMPONENT) SIDE

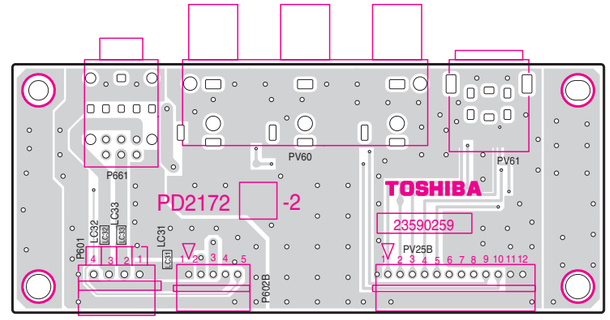
FRONT AV BOARD PD2172B2 (U003B)

BOTTOM (FOIL) SIDE



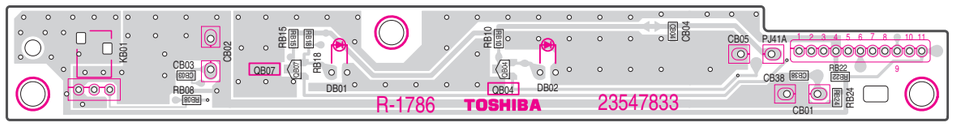
FRONT AV BOARD PD2172B2 (U003B)

TOP (COMPONENT) SIDE



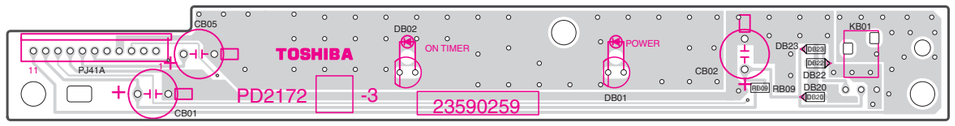
RMT LED BOARD PD2172B3 (U003C)

BOTTOM (FOIL) SIDE



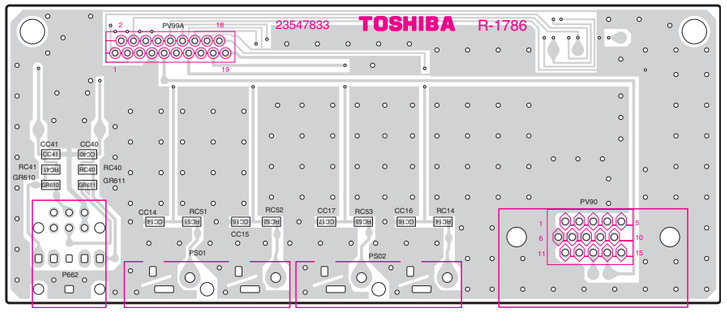
RMT LED BOARD PD2172B3 (U003C)

TOP (COMPONENT) SIDE



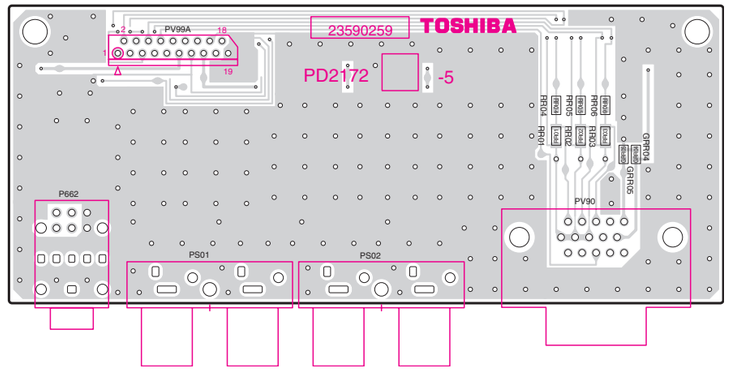
PC HDMI BOARD PD2172B5 (U003E)

BOTTOM (FOIL) SIDE



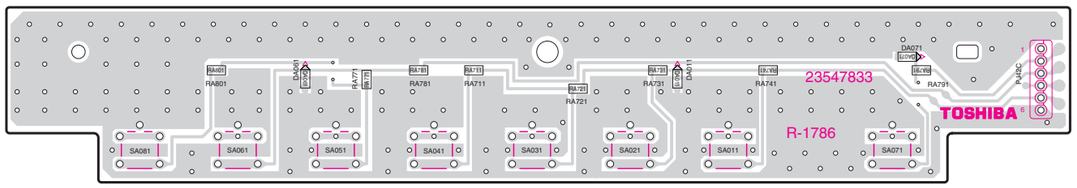
PC HDMI BOARD PD2172B5 (U003E)

TOP (COMPONENT) SIDE



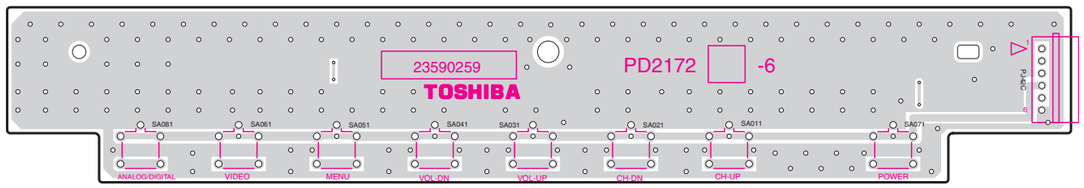
KEY BOARD PD2172B6 (U003F)

BOTTOM (FOIL) SIDE



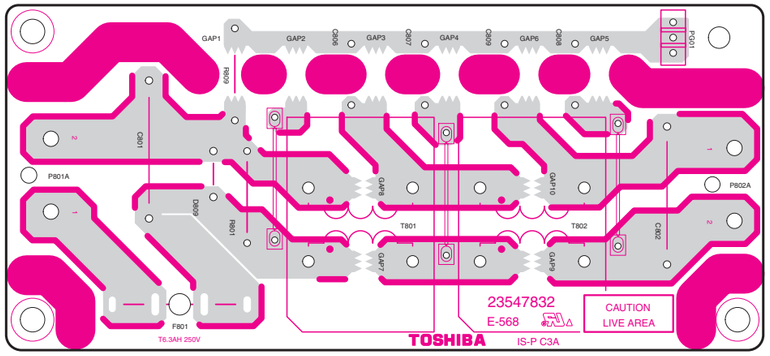
KEY BOARD PD2172B6 (U003F)

TOP (COMPONENT) SIDE



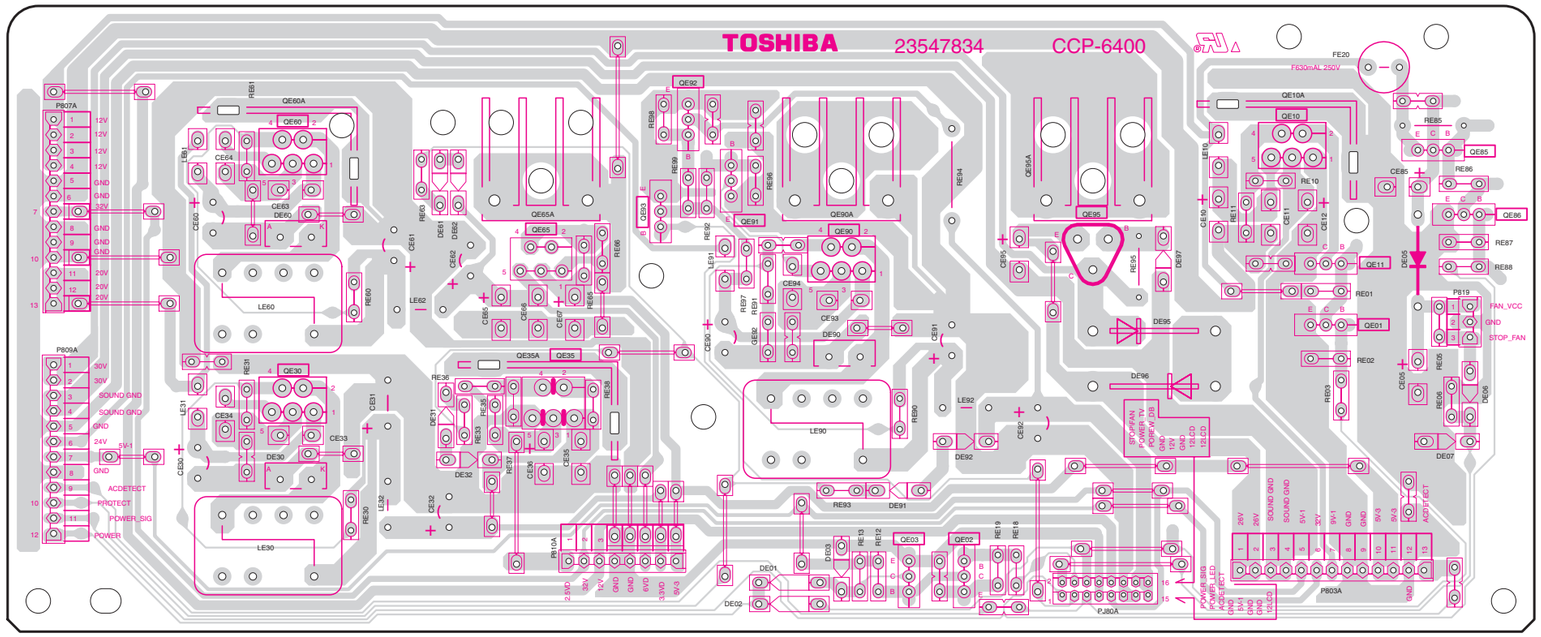
AC IN BOARD PD2171A2 (U002B)

BOTTOM (FOIL) SIDE



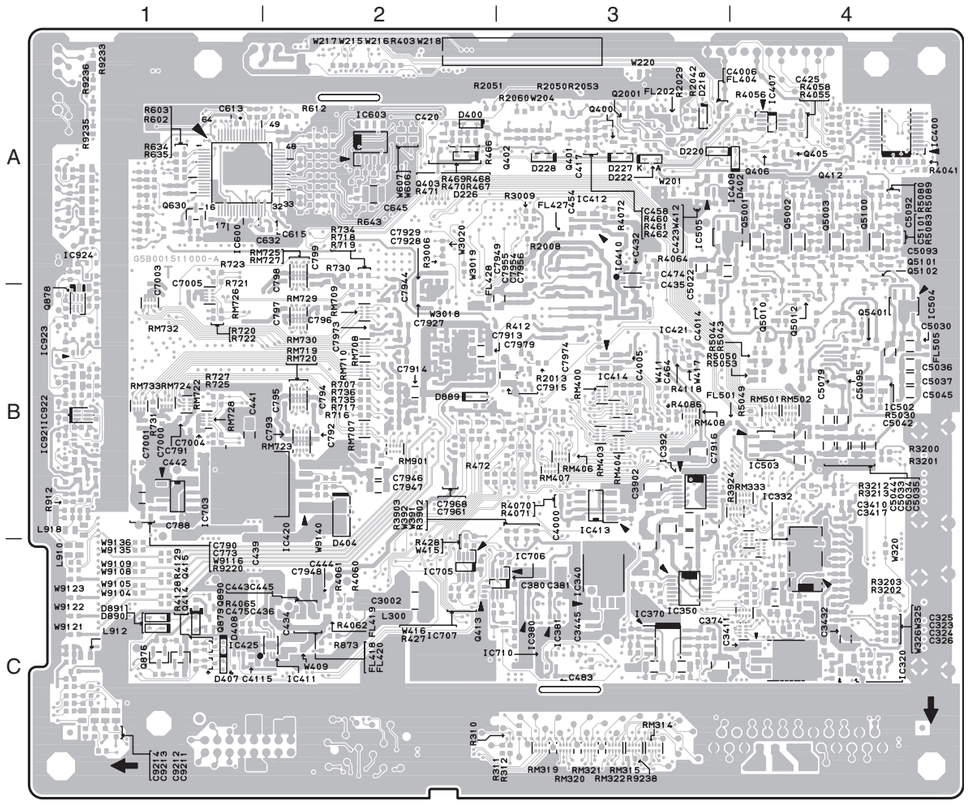
LOW B BOARD PD2173D1 (U004)

BOTTOM (FOIL) SIDE



SIGNAL BOARD PD2238A1 (U001)

BOTTOM (FOIL) SIDE



SCHEMATIC DIAGRAM

MODEL : 32WLT58/37WLT58

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "SERVICE SAFETY PRECAUTIONS" ON PAGE 3 OF THIS MANUAL.

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NOTE:

1. RESISTOR Resistance is shown in ohm [K = 1.000, M = 1.000.000]. All resistors are 1/6W and 5% tolerance carbon resistor, unless otherwise noted as the following marks.
   1/2R = Metal or Metal oxide of 1/2 watt
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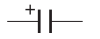
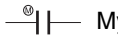
    Electolytic capacitor  Mylar capacitor
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■ SCHEMATIC DIAGRAM STRUCTURE:

AC INPUT Circuit 1/66
INTERFACE Circuit 2/66
LOW_B Circuit
- CONNECTOR [SHEET-1/2] 3/66
- LOWB [SHEET-2/2] 4/66

PC-HDMI-IN Circuit 5/66
POWER Circuit
- CONNECTOR [SHEET-1/7] 6/66
- RELAY/RUSH PROTECTION [SHEET-2/7] 7/66
- PFC [SHEET-3/7] 8/66
- STANDBY POWER [SHEET-4/7] 9/66
- RCC POWER [SHEET-5/7] 10/66
- RESONANCE POWER [SHEET-6/7] 11/66
- PROTECT/ AC DETECT [SHEET-7/7] 12/66

LED RMT Circuit 13/66
TN_AV Circuit
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- TIF [SHEET-3/11] 16/66
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- TEXT SW [SHEET-9/11] 22/66
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FRONT-AV Circuit 25/66
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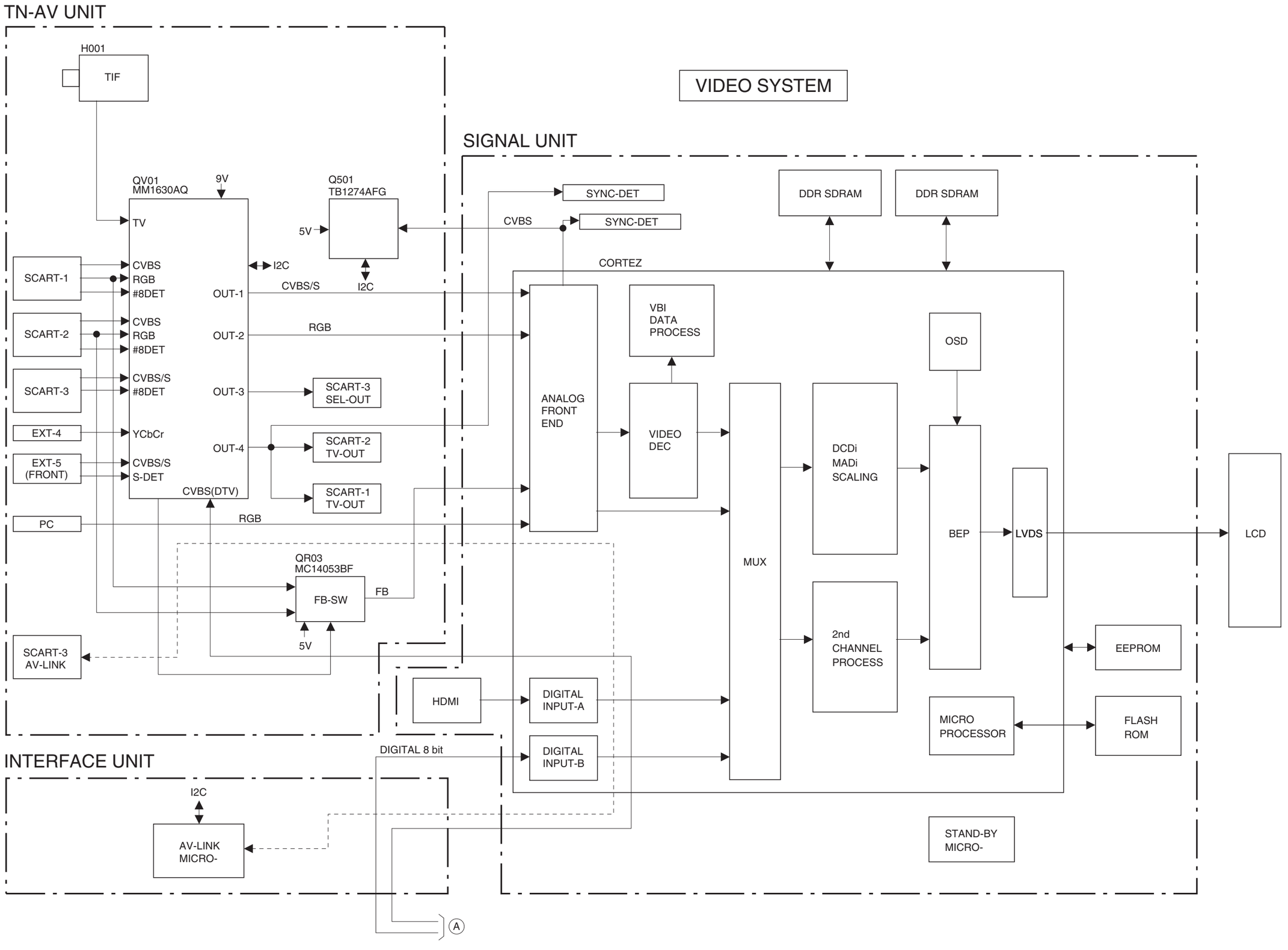
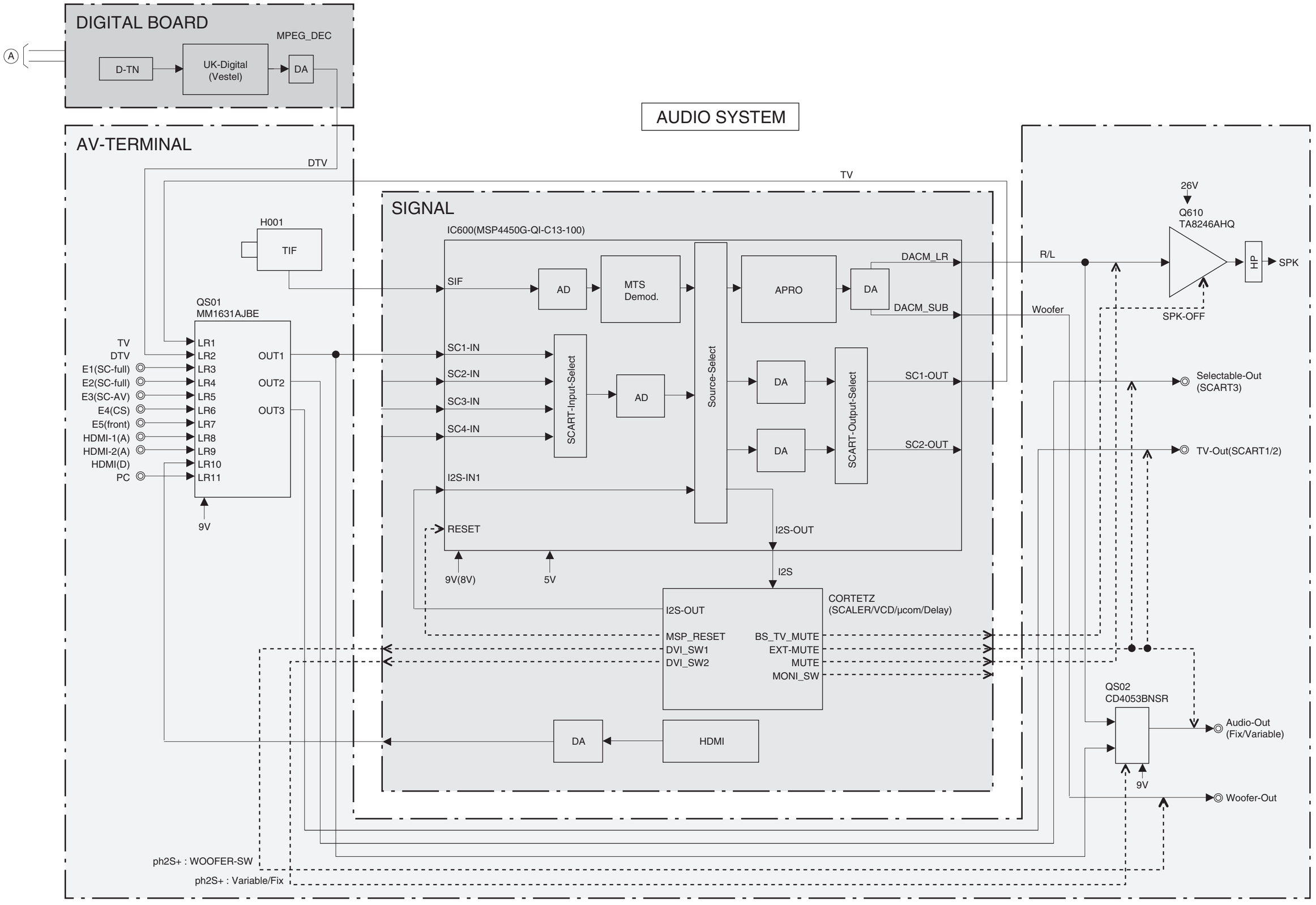
CIRCUIT BLOCK DIAGRAM



AUDIO SYSTEM



SPECIFICATIONS

Broadcast systems/channels

PAL-I	UHFUK21-UK69
PAL-B/G	UHFE21-E69 VHFE2-E12, S1-S41
SECAM-L	UHFF21-F69 VHFF1-F10, B-Q
SECAM-D/K	HFR21-R69 VHFR1-R12

Video Input PAL, SECAM, NTSC 3.58/4.43

External connections

EXT1	Input	21-pin SCART	RGB, A/V
EXT2	Input	21-pin SCART	RGB, A/V
EXT3	Input/Output	21-pin SCART	A/V S-video Selectable output
EXT4	Input	Phono jacks	Y, P_B/C_B, P_R/C_R
		Phono jacks	A/V
EXT5	Input (Side)	4 pin	S-video
		Phono jack	Video
		Phono jacks	Audio L + R
HDMI	Input	HDMI connector	Digital television and audio signal
	Input	Phono jacks	Audio L + R
PC	Input	Mini D-sub 15-pin	Analog RGB signal
	Input	3.5mm stereo jack	Audio
Audio Ouput Fixed/Variable		Phono jacks	Audio L + R
Output to Active Super Woofer		Phono socket	

Programme Positions 100

Stereo Nicam
2 carrier system

Visible Screen Size (approx.)
32WLT 80cm
37WLT 94cm

Display 16:9

Sound output (at 10% distortion) Main 10W + 10W

Power consumption as specified in EN60107-1 : 1997
32WLT 170W
37WLT 195W

Standby (approx.)
32WLT <0.5W
37WLT <0.5W

Dimensions (approx.)
32WLT 60cm (H) 80cm (W) 30cm (D)
37WLT 67cm (H) 91cm (W) 32cm (D)
(Height dimension includes foot stand)

Weight (approx.)
32WLT 22kg
37WLT 26kg

Headphone socket 3.5mm stereo

Accessories Remote control
2 batteries
(AAA, IEC R03 1.5V)

TOSHIBA CORPORATION
1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8001, JAPAN

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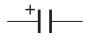
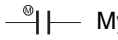
    Electolytic capacitor  Mylar capacitor
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CIRCUIT BLOCK DIAGRAM

TN-AV UNIT

H001
TIF

QV01
MM1630AQ
9V
TV
CVBS
RGB
#8DET
I2C
OUT-1
OUT-2
OUT-3
OUT-4
YCbCr
CVBS/S
S-DET
CVBS(DTV)

Q501
TB1274AFG
5V
I2C

SCART-1
SCART-2
SCART-3
EXT-4
EXT-5
(FRONT)
PC

CVBS/S
#8DET
SCART-3
SEL-OUT
SCART-2
TV-OUT
SCART-1
TV-OUT
RGB

QR03
MC14053BF
FB-SW
FB
5V

SCART-3
AV-LINK

VIDEO SYSTEM

SIGNAL UNIT

SYNC-DET
SYNC-DET
CVBS

DDR SDRAM
DDR SDRAM

CORTEZ

ANALOG
FRONT
END

VBI
DATA
PROCESS

VIDEO
DEC

MUX

DCDi
MADi
SCALING

2nd
CHANNEL
PROCESS

OSD

BEP

LVDS

LCD

EEPROM

MICRO
PROCESSOR

FLASH
ROM

STAND-BY
MICRO-

HDMI

DIGITAL
INPUT-A

DIGITAL
INPUT-B

DIGITAL 8 bit

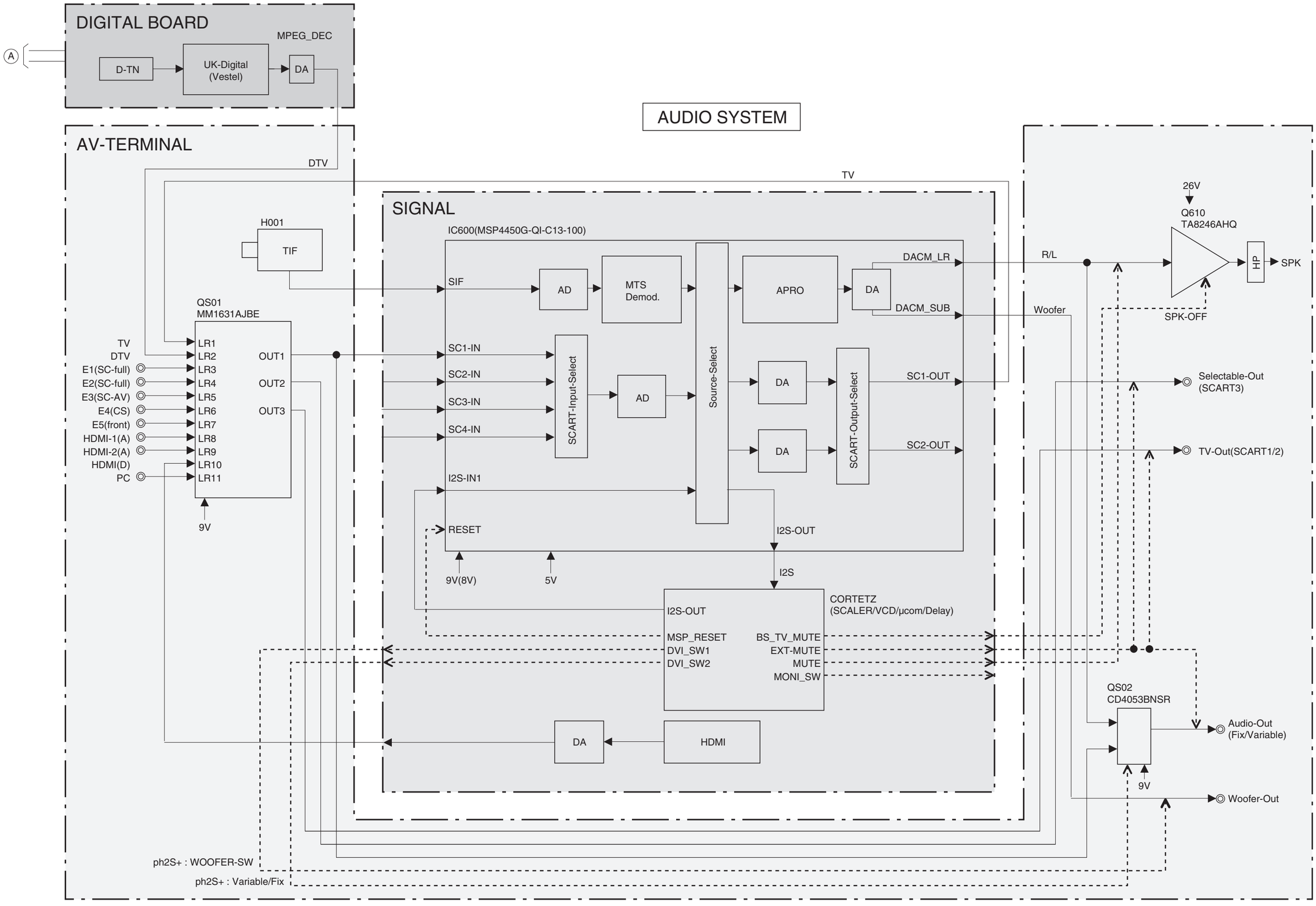
INTERFACE UNIT

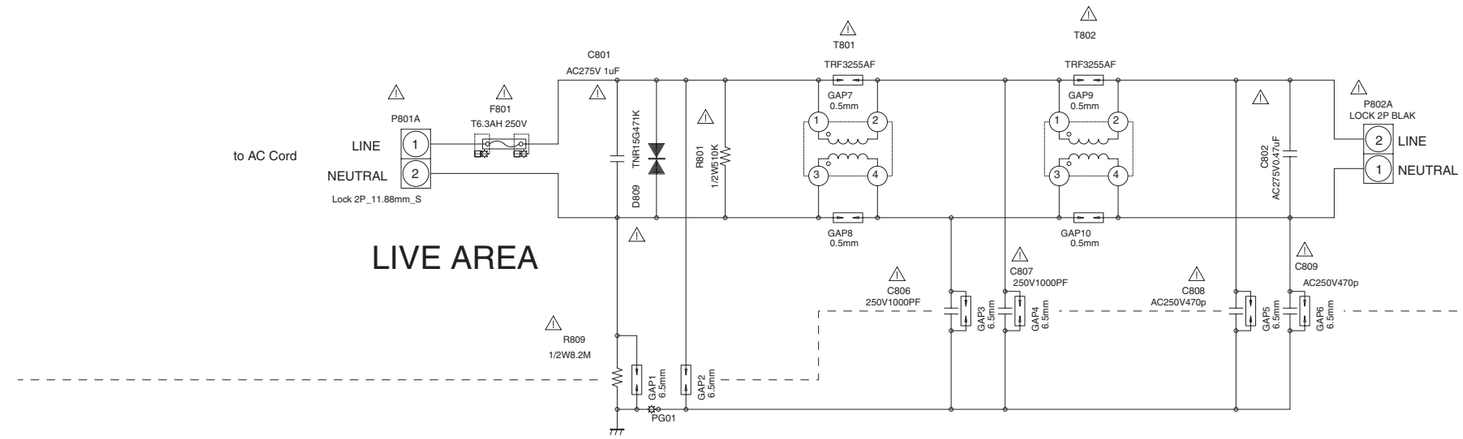
I2C

AV-LINK
MICRO-

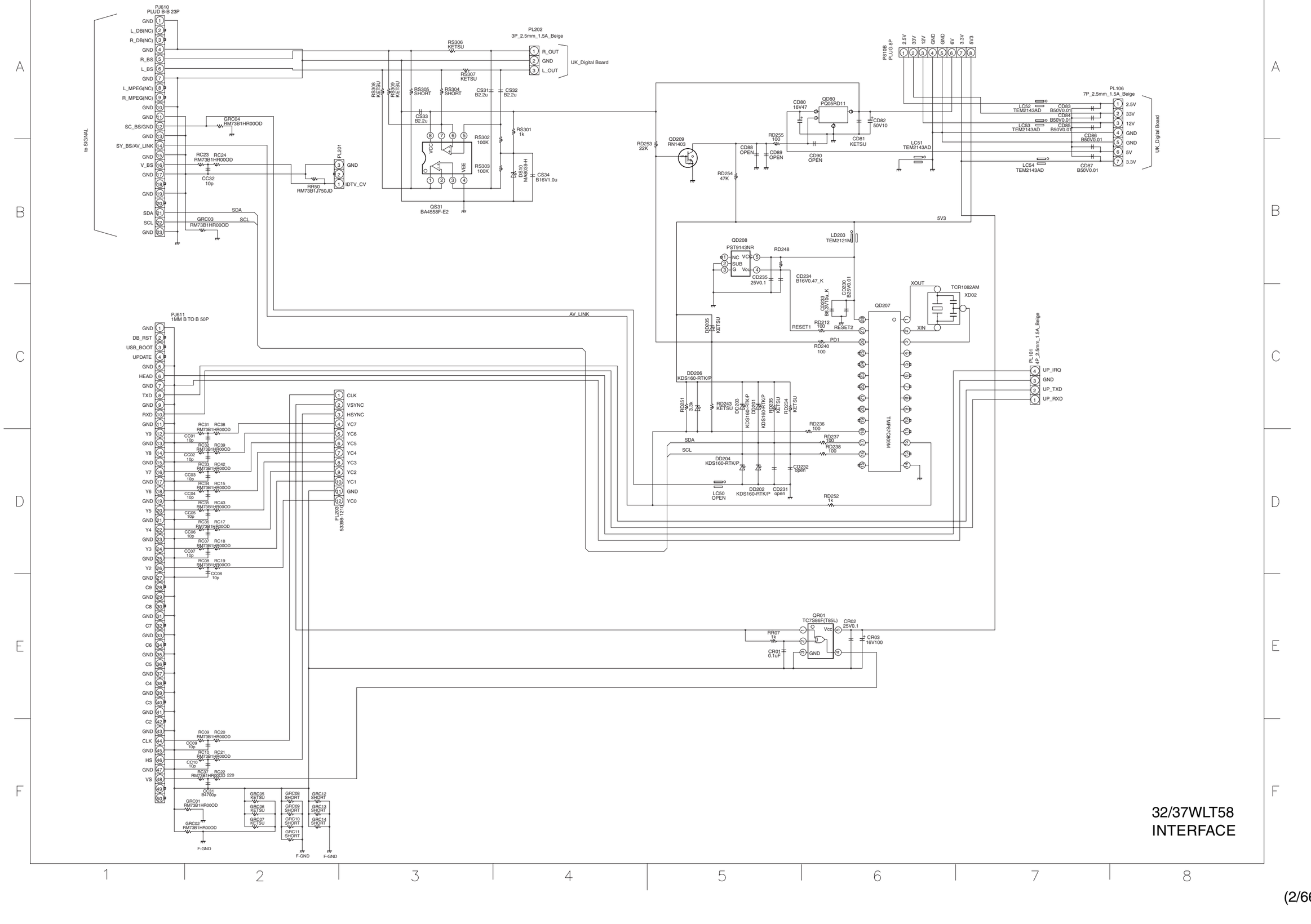
A

AUDIO SYSTEM





32/37WLT58
AC INPUT


PJ610
PLUD B-B 23P
to SIGNAL
PL202
3P_2.5mm_1.5A_Beige
R_OUT
GND
L_OUT
UK_Digital Board
RS306
KETSU
RS307
KETSU
RS308
KETSU
RS309
KETSU
RS305
SHORT
RS304
SHORT
CS31
B2.2u
CS32
B2.2u
CS33
B2.2u
RS302
100K
RS303
100K
RS301
1k
DS10
MA8039-H
CS34
B16V1.0u
QS31
BA4558F-E2
GRC04
RM73B1HR00OD
RC23
RM73B1HR00OD
RC24
RM73B1HR00OD
CC32
10p
RR50
RM73B1J750JD
PL201
GND
IDTV_CV
SDA
SCL
GRC03
RM73B1HR00OD
AV_LINK
PJ611
1MM B TO B 50P
PL203
53398-1210
CLK
VSYNC
HSYNC
YC7
YC6
YC5
YC4
YC3
YC2
YC1
GND
YC0
RC31
RM73B1HR00OD
RC38
RM73B1HR00OD
CC01
10p
RC32
RM73B1HR00OD
RC39
RM73B1HR00OD
CC02
10p
RC33
RM73B1HR00OD
RC42
RM73B1HR00OD
CC03
10p
RC34
RM73B1HR00OD
RC15
RM73B1HR00OD
CC04
10p
RC35
RM73B1HR00OD
RC43
RM73B1HR00OD
CC05
10p
RC36
RM73B1HR00OD
RC17
RM73B1HR00OD
CC06
10p
RC07
RM73B1HR00OD
RC18
RM73B1HR00OD
CC07
10p
RC08
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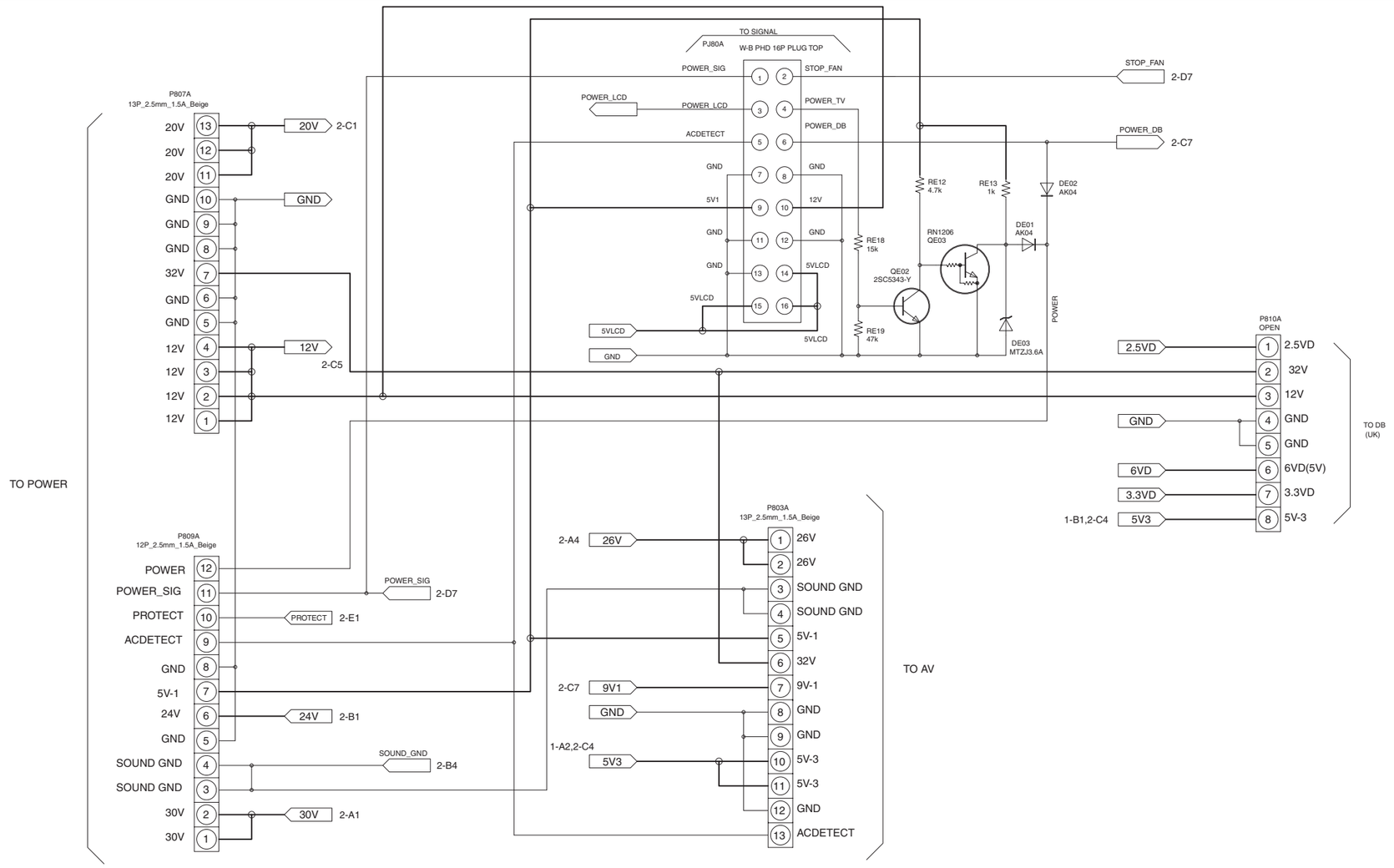
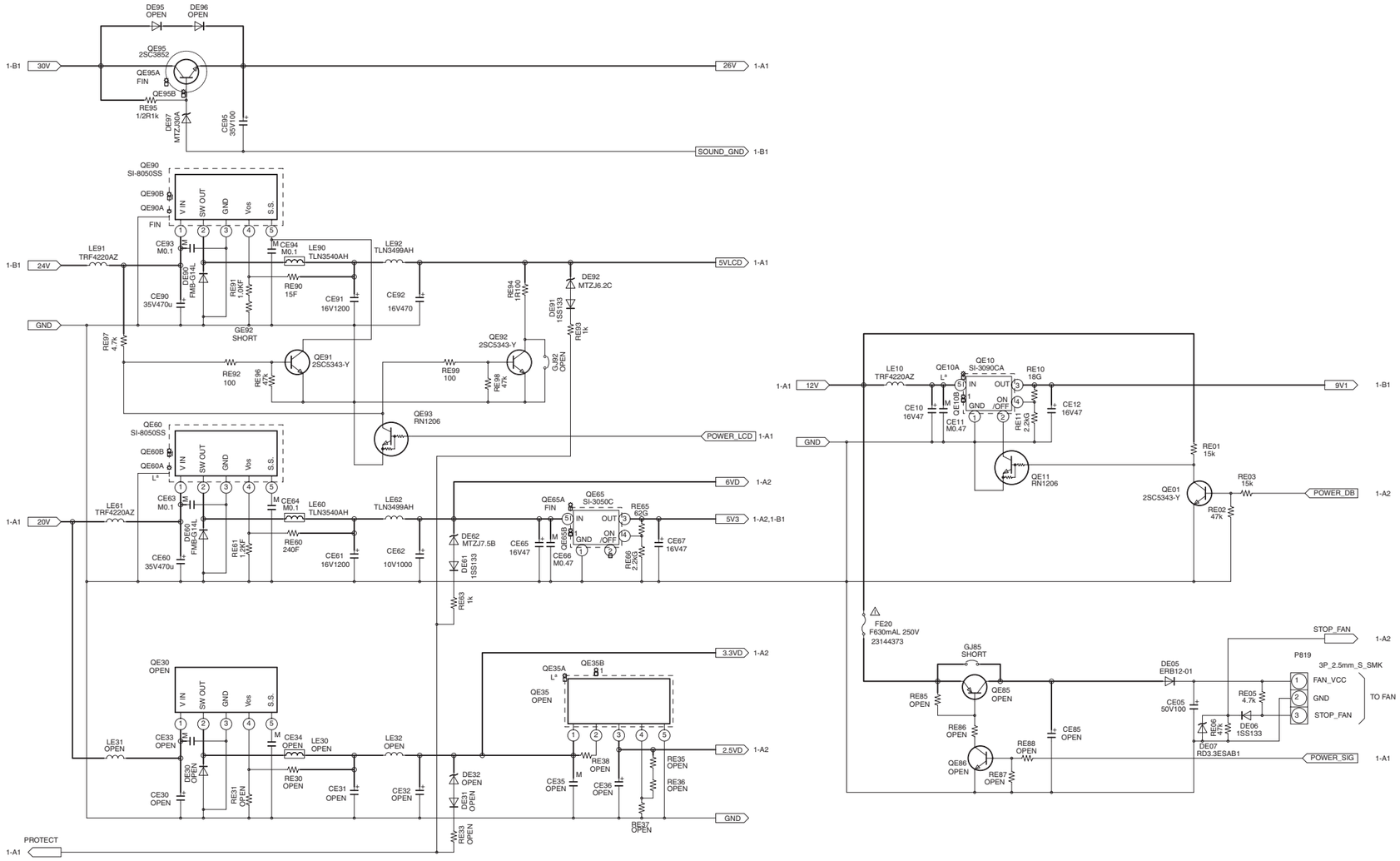
RC19
RM73B1HR00OD
CC08
10p
RC09
RM73B1HR00OD
RC20
RM73B1HR00OD
CC09
10p
RC10
RM73B1HR00OD
RC21
RM73B1HR00OD
CC10
10p
RC37
RM73B1HR00OD
RC22
220
CC31
B4700p
GRC01
RM73B1HR00OD
GRC02
RM73B1HR00OD
F-GND
GRC05
KETSU
GRC06
KETSU
GRC07
KETSU
GRC08
SHORT
GRC09
SHORT
GRC10
SHORT
GRC11
SHORT
GRC12
SHORT
GRC13
SHORT
GRC14
SHORT
F-GND
F-GND
FR150
PLUG 8P
2.5V
33V
12V
GND
GND
6V
3.3V
5V3
PL106
7P_2.5mm_1.5A_Beige
2.5V
33V
12V
GND
5V
3.3V
UK_Digital Board
LC52
TEM2143AD
LC53
TEM2143AD
LC51
TEM2143AD
LC54
TEM2143AD
CD83
B50V0.01
CD84
B50V0.01
CD85
B50V0.01
CD86
B50V0.01
CD87
B50V0.01
QD80
PQ05RD11
CD80
16V47
CD82
50V10
CD81
KETSU
CD90
OPEN
RD253
22K
QD209
RN1403
RD255
100
CD88
OPEN
CD89
OPEN
RD254
47K
5V3
QD208
PST9143NR
NC
SUB
G
VCC
Vout
RD248
CD235
25V0.1
LD203
TEM2121M
CD234
B16V0.47_K
CD233
B63V0.1_K
CD230
B25V0.01
XOUT
TCR1082AM
XD02
XIN
QD207
TMP87C860M
RESET1
RESET2
RD212
100
PD1
RD240
100
DD205
KDS160-RTK/P
DD206
KDS160-RTK/P
RD251
SHORT
3.3k
RD243
KETSU
DD203
KDS160-RTK/P
DD201
KDS160-RTK/P
RD235
KETSU
RD234
KETSU
RD236
100
RD237
100
RD238
100
SDA
SCL
DD204
KDS160-RTK/P
CD232
open
LC50
OPEN
DD202
KDS160-RTK/P
CD231
open
RD252
1k
PL101
4P_2.5mm_1.5A_Beige
UP_IRQ
GND
UP_TXD
UP_RXD
QR01
TC7S86F(T85L)
Vcc
GND
RR07
1K
CR01
0.1uF
CR02
25V0.1
CR03
16V100
32/37WLT58
INTERFACE

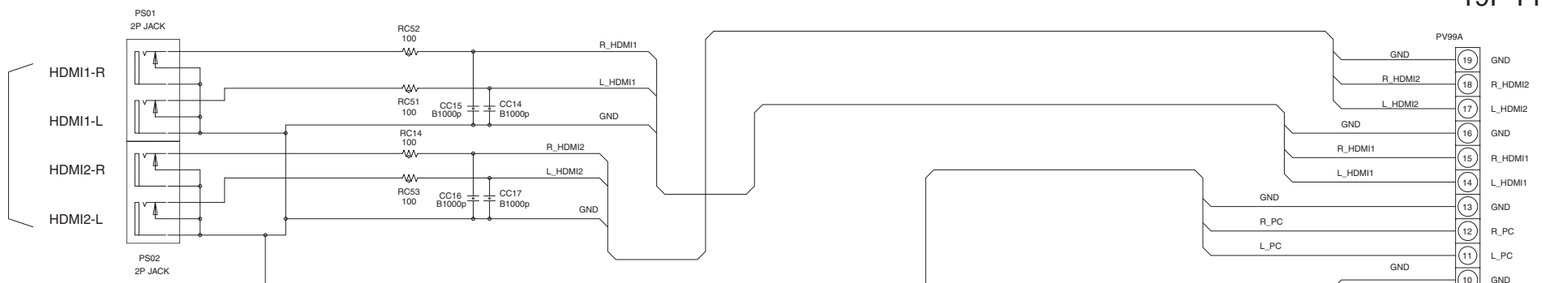


32/37WLT58
LOW_B (CONNECTOR)
SHEET-1/2

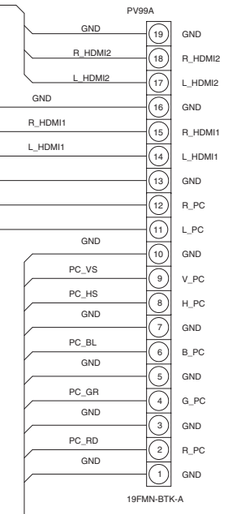


32/37WLT58
LOW_B (LOWB)
SHEET-2/2

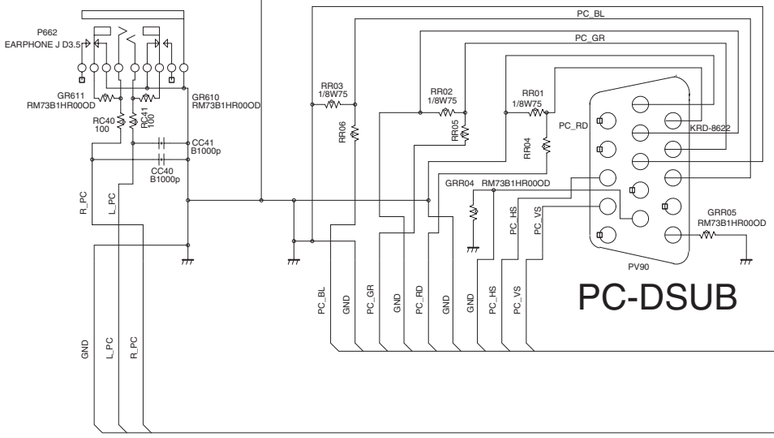
HDMI Audio



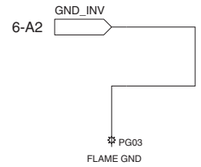
19P-FFC

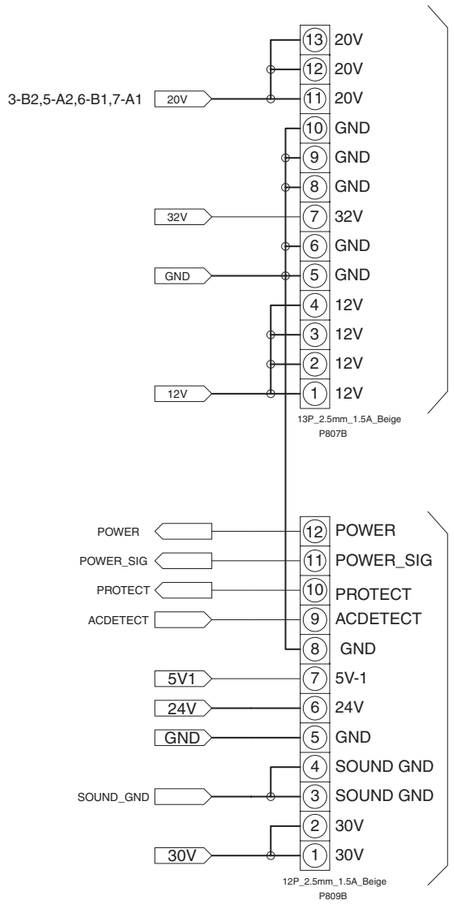


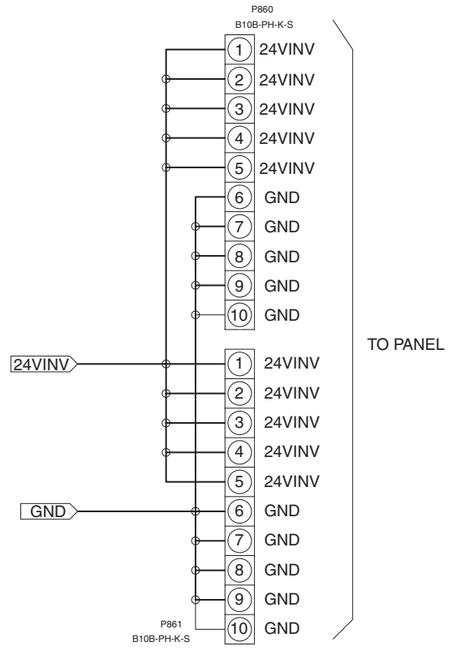
PC SOUND

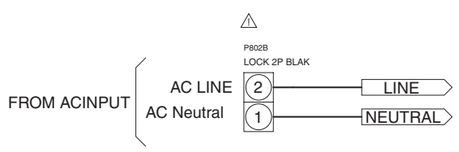


32/37WLT58
PC-HDMI-IN



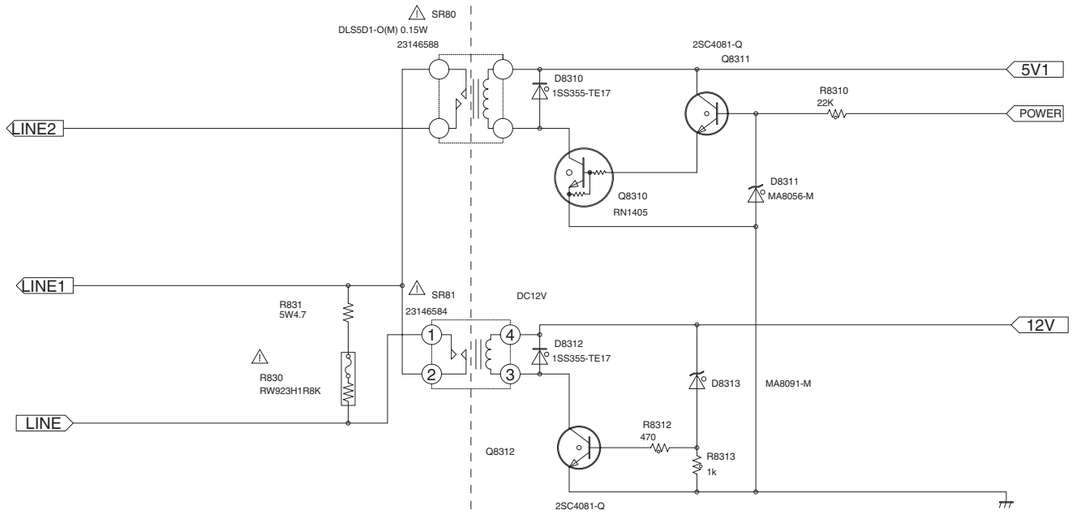






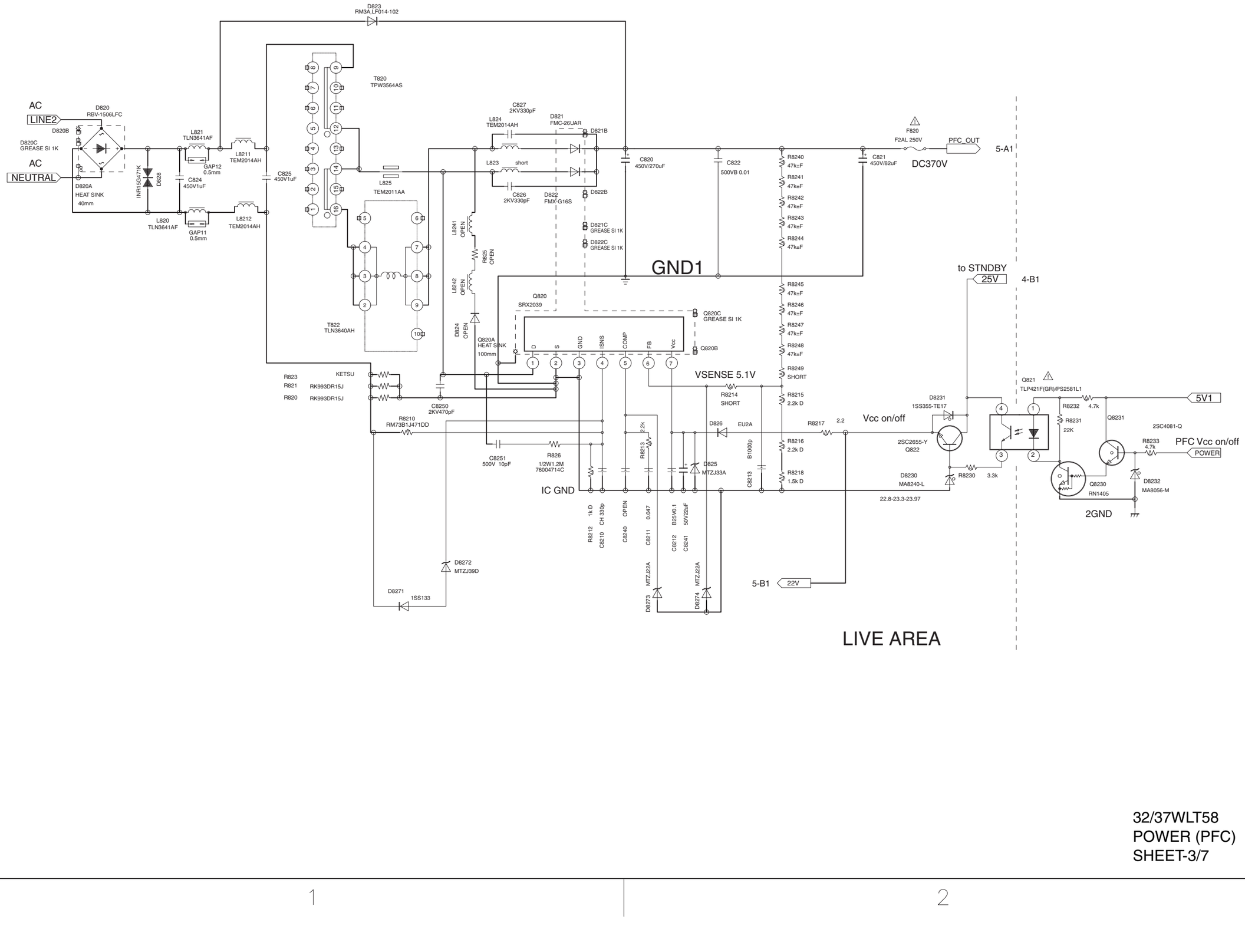
LIVE AREA

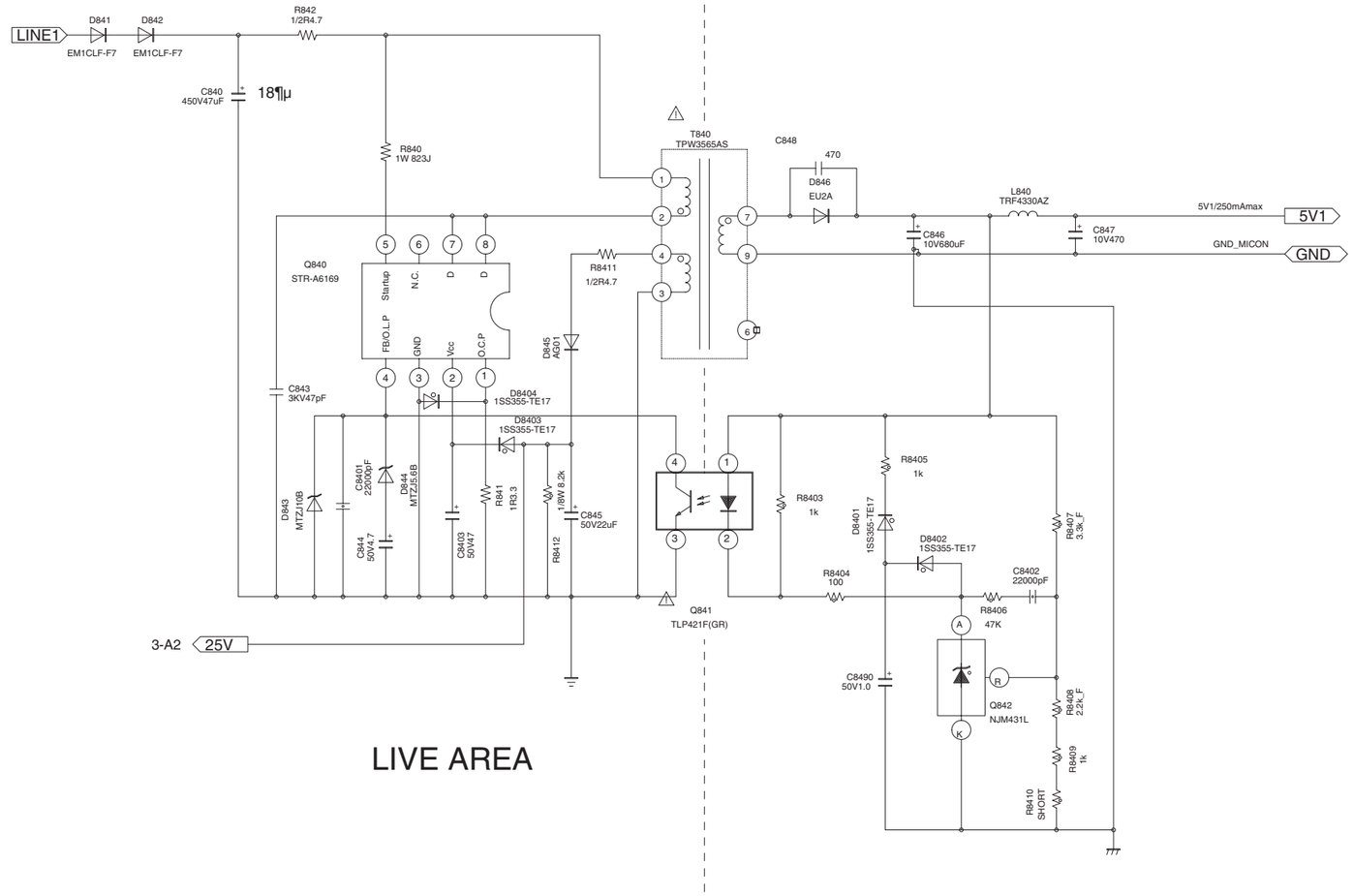
32/37WLT58
POWER (CONNECTOR)
SHEET-1/7



LIVE AREA

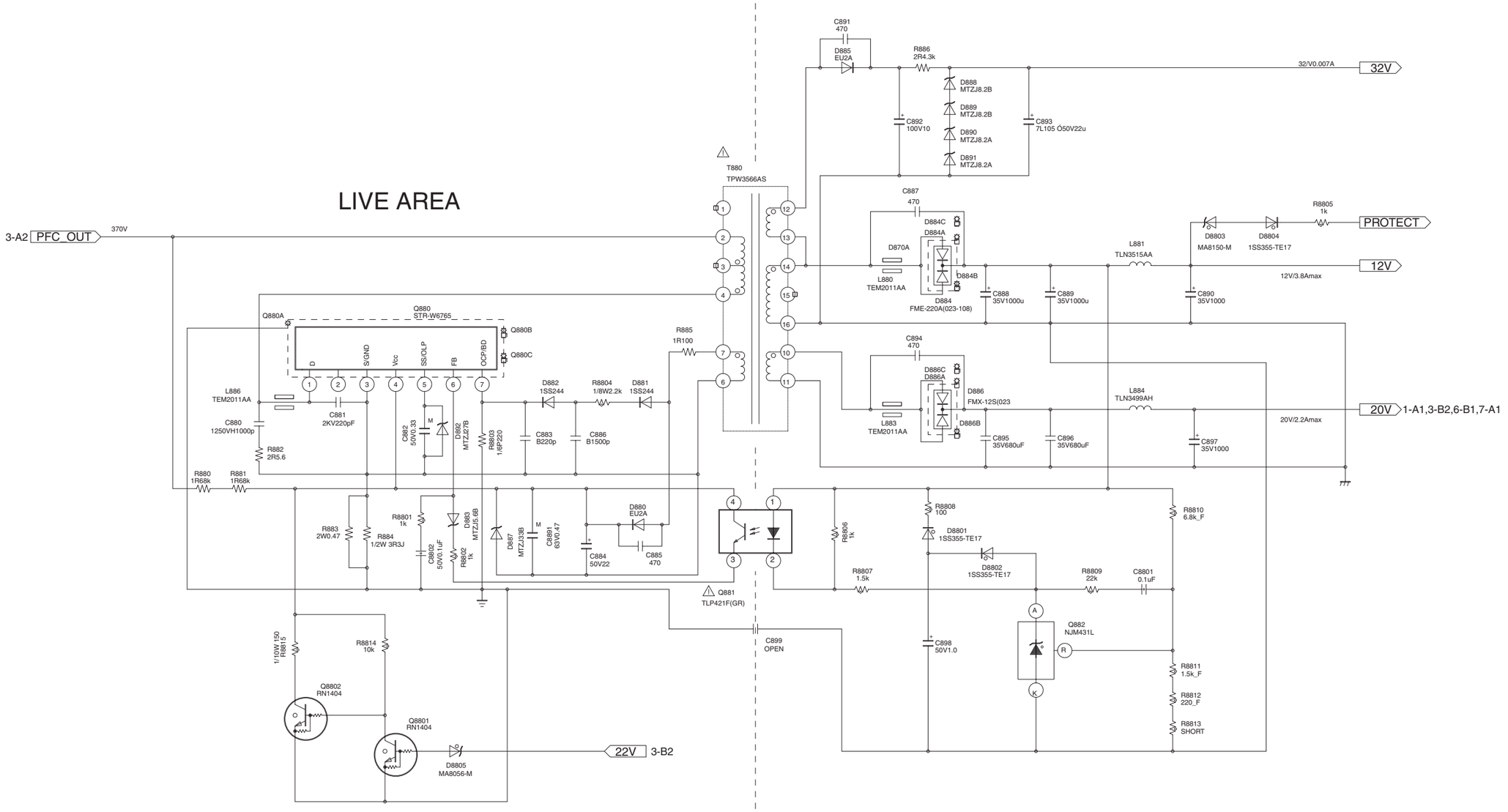
32/37WLT58
POWER (RELAY/RUSH PROTECTION)
SHEET-2/7


AC
LINE2
AC
NEUTRAL
D820
RBV-1506LFC
D820B
D820C
GREASE SI 1K
D820A
HEAT SINK
40mm
INR15G477K
D828
L821
TLN3641AF
GAP12
0.5mm
L820
TLN3641AF
GAP11
0.5mm
C824
450V1uF
L8211
TEM2014AH
L8212
TEM2014AH
C825
450V1uF
D823
RM3A LF014-102
T820
TPW3564AS
L825
TEM2011AA
T822
TLN3640AH
C827
2KV330pF
L824
TEM2014AH
D821
FMC-26UAR
D821B
L823
short
C826
2KV330pF
D822
FMX-G16S
D822B
D821C
GREASE SI 1K
D822C
GREASE SI 1K
C820
450V/270uF
C822
500VB 0.01
C821
450V/82uF
F820
F2AL 250V
PFC_OUT
5-A1
DC370V
GND1
R8240
47kxF
R8241
47kxF
R8242
47kxF
R8243
47kxF
R8244
47kxF
R8245
47kxF
R8246
47kxF
R8247
47kxF
R8248
47kxF
R8249
SHORT
R8215
2.2k D
R8216
2.2k D
R8218
1.5k D
L8241
OPEN
R825
OPEN
L8242
OPEN
D824
OPEN
Q820
SRX2039
Q820A
HEAT SINK
100mm
Q820B
Q820C
GREASE SI 1K
D
S
GND
ISNS
COMP
FB
Vcc
VSENSE 5.1V
R8214
SHORT
R823
R821
R820
KETSU
RK993DR15J
RK993DR15J
C8250
2KV470pF
R8210
RM73B1J471DD
C8251
500V 10pF
R826
1/2W1.2M
76004714C
D826
EU2A
R8217
2.2
R8213
2.2k
D825
MTZJ33A
B1000p
C8213
IC GND
R8212
1k D
C8210
CH 330p
C8240
OPEN
C8211
0.047
C8212
B25V0.1
C8241
50V22uF
D8272
MTZJ39D
D8271
1SS133
D8273
MTZJ22A
D8274
MTZJ22A
5-B1
22V
Vcc on/off
2SC2655-Y
Q822
D8230
MA8240-L
22.8-23.3-23.97
R8230
3.3k
to STNDBY
25V
4-B1
Q821
TLP421F(GR)/PS2581L1
D8231
1SS355-TE17
R8232
4.7k
5V1
R8231
22K
Q8231
2SC4081-Q
R8233
4.7k
PFC Vcc on/off
POWER
Q8230
RN1405
D8232
MA8056-M
2GND
LIVE AREA
32/37WLT58
POWER (PFC)
SHEET-3/7

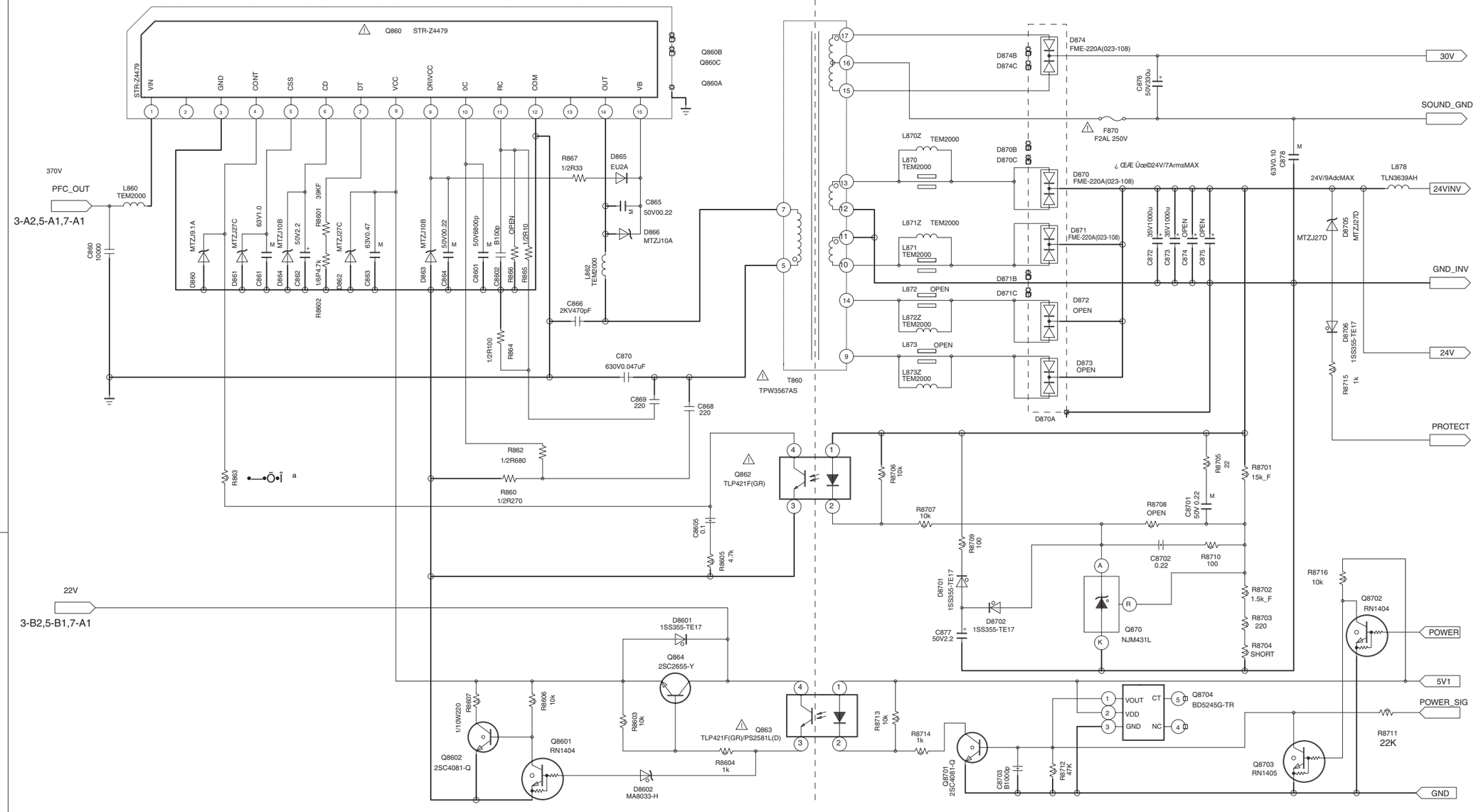


32/37WLT58
POWER (STANDBY POWER)
SHEET-4/7

LIVE AREA

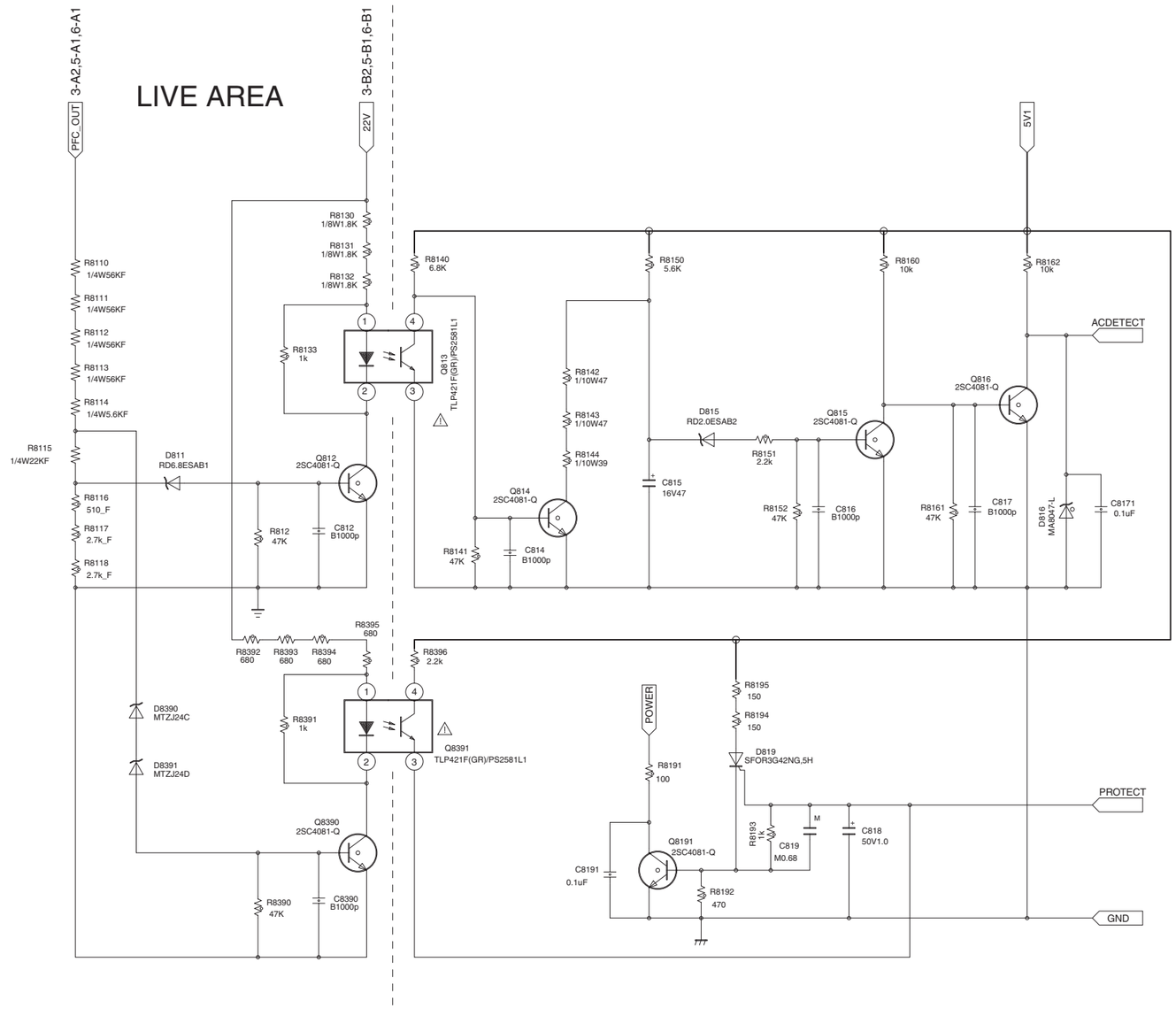


32/37WLT58
POWER (RCC POWER)
SHEET-5/7

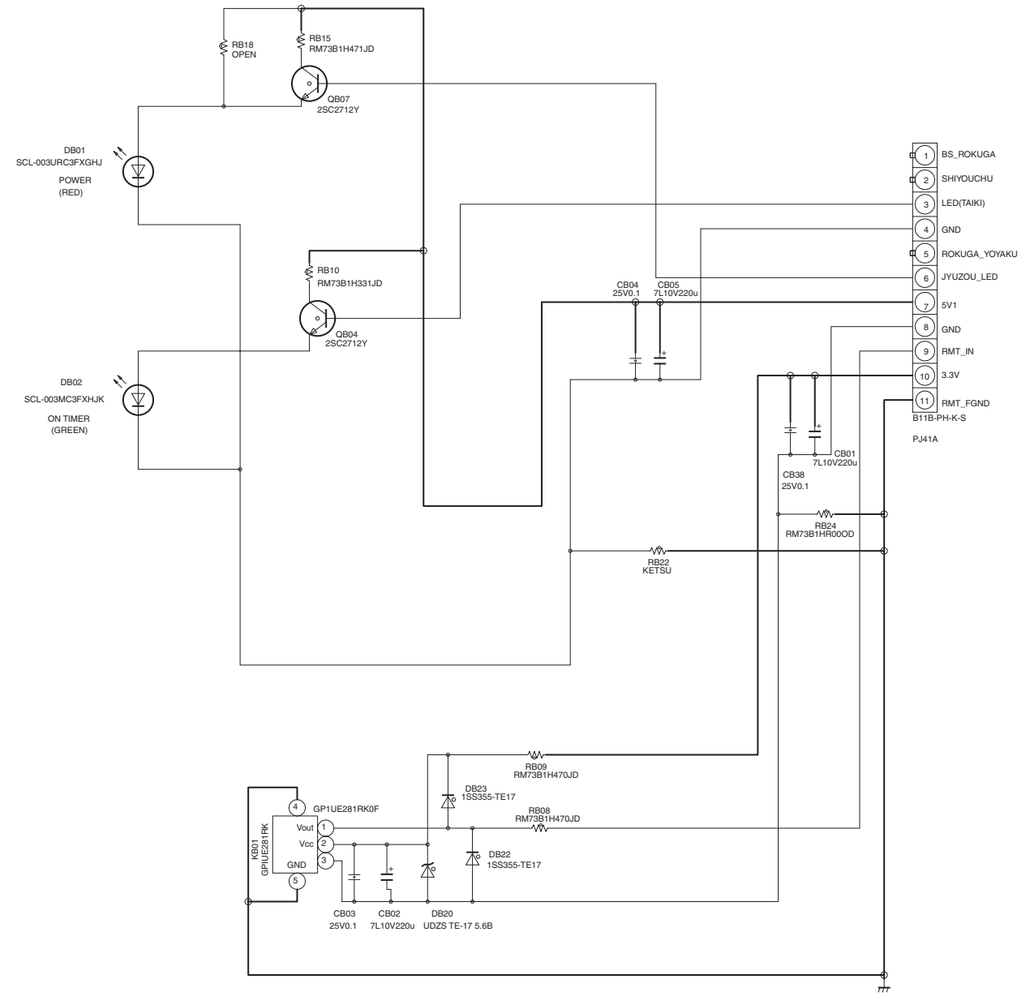


LIVE AREA

32/37WLT58
POWER (RESONANCE POWER)
SHEET-6/7



32/37WLT58
POWER (PROTECT/ AC DETECT)
SHEET-7/7



32/37WLT58
LED RMT

TO SIGNAL BOARD

3P

PJ21A
B3B-PH-K-S

50P-FFC

PJ22A
9637S-50ATL FFC/FPC SOCKET

50P-FFC

PJ60A
9637S-50ATL FFC/FPC SOCKET

19P-FFC

PV99B

PC/HDMI(A)

19FMN-BTK-A

5P

TO LED_HP BOARD

P602A
B5B-PH-K-S

13P

TO LOWB BOARD

P803B
13P_2.5mm_1.5A_Beige

11P

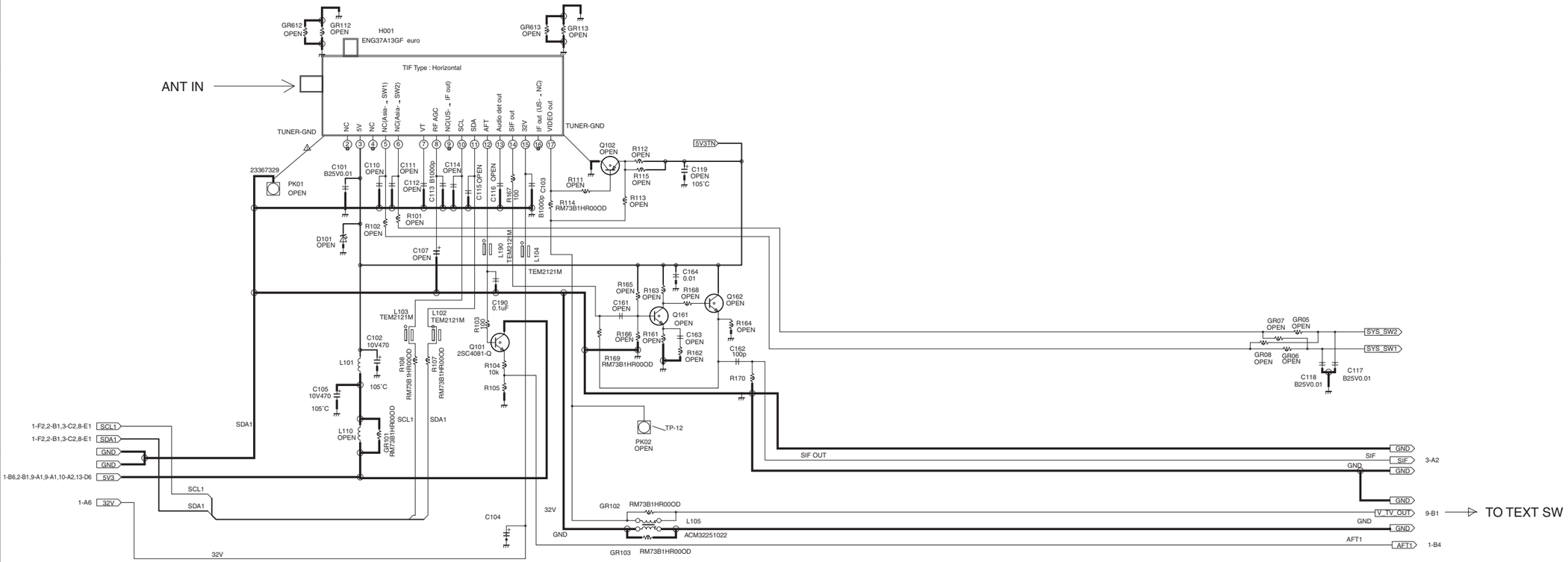
FRONT-AV(E5)

PV25A
B12B-PH-K-S

32/37WLT58
TN_AV (CONNECTOR)
SHEET-1/11

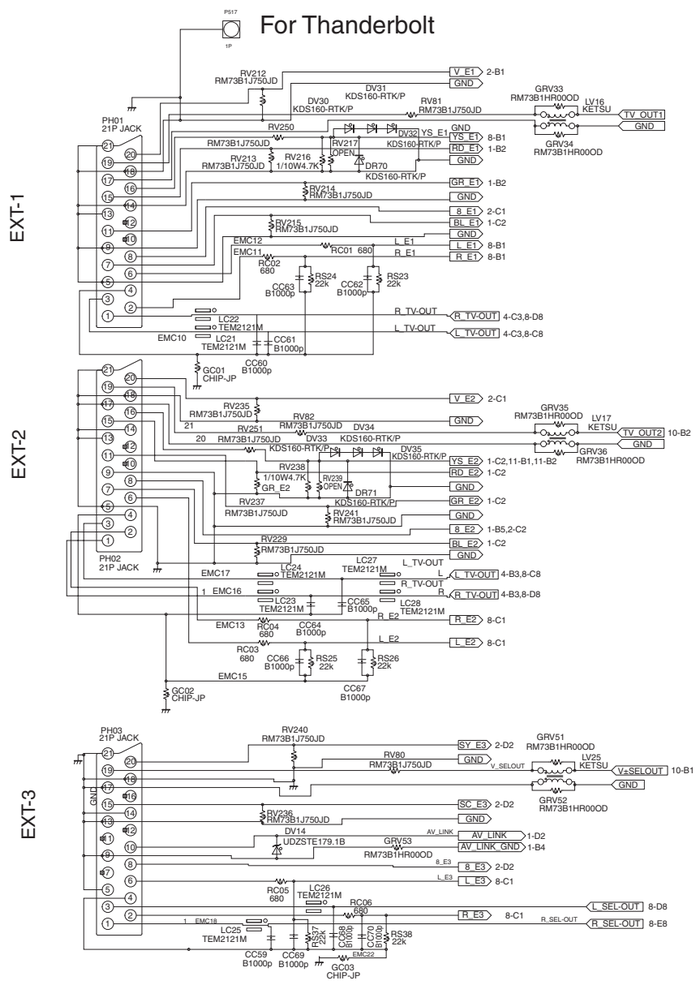
QV01
MM1630AQ

32/37WLT58
TN_AV (VIDEO-SW)
SHEET-2/11

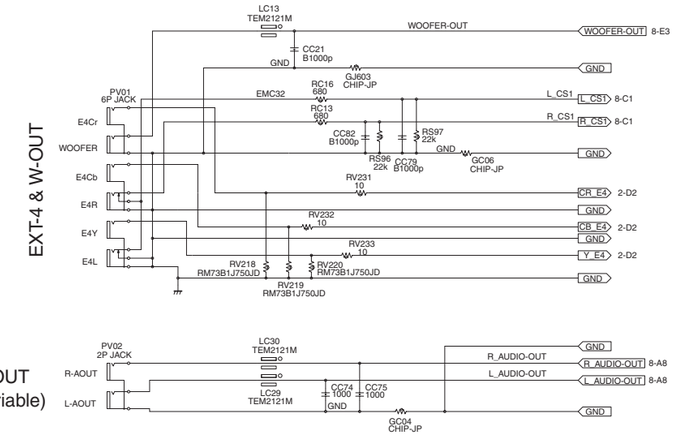


32/37WLT58
TN_AV (TIF)
SHEET-3/11

For Thanderbolt

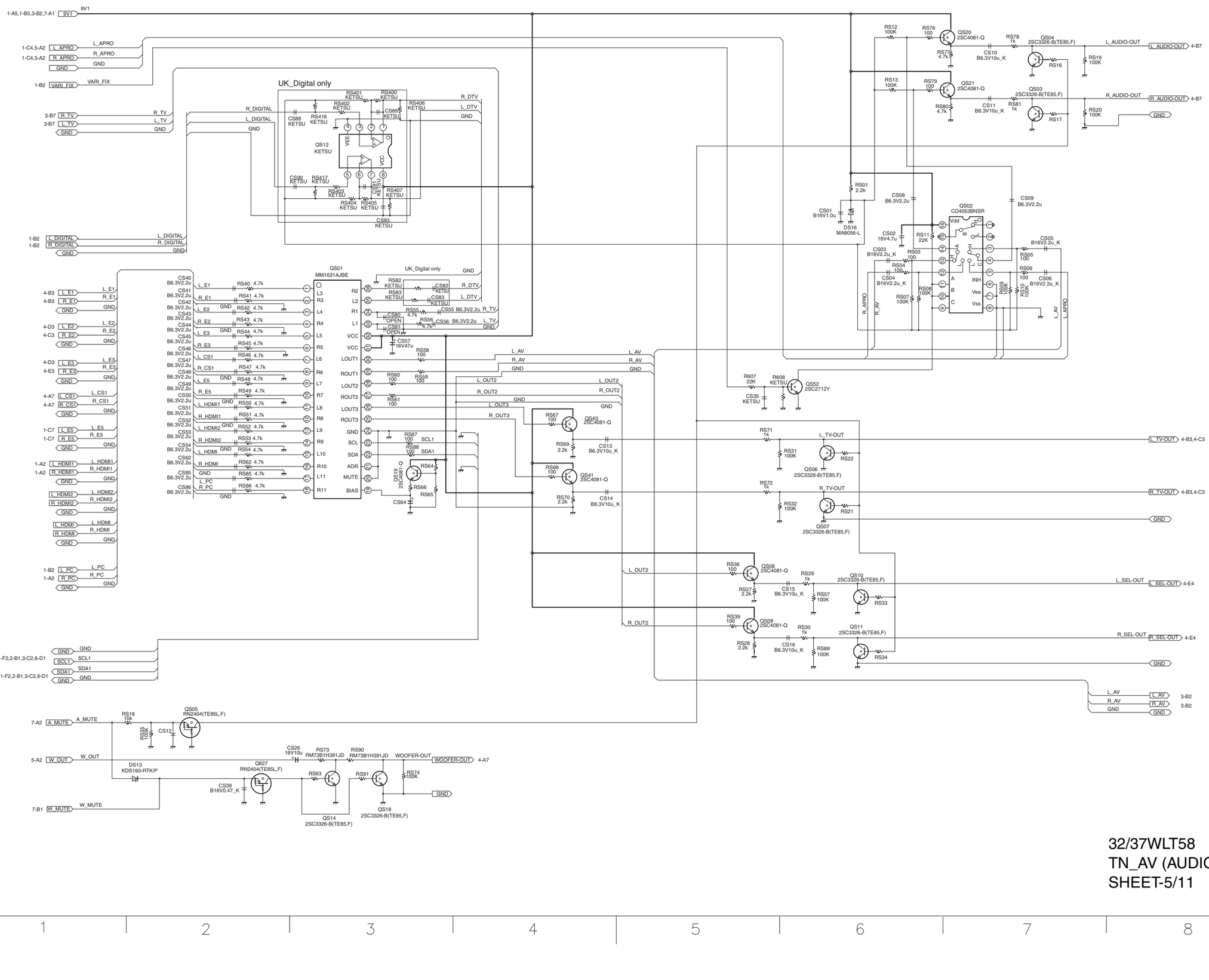


EXT-4 & W-OUT



AUDIO-OUT (FIXED/Variable)

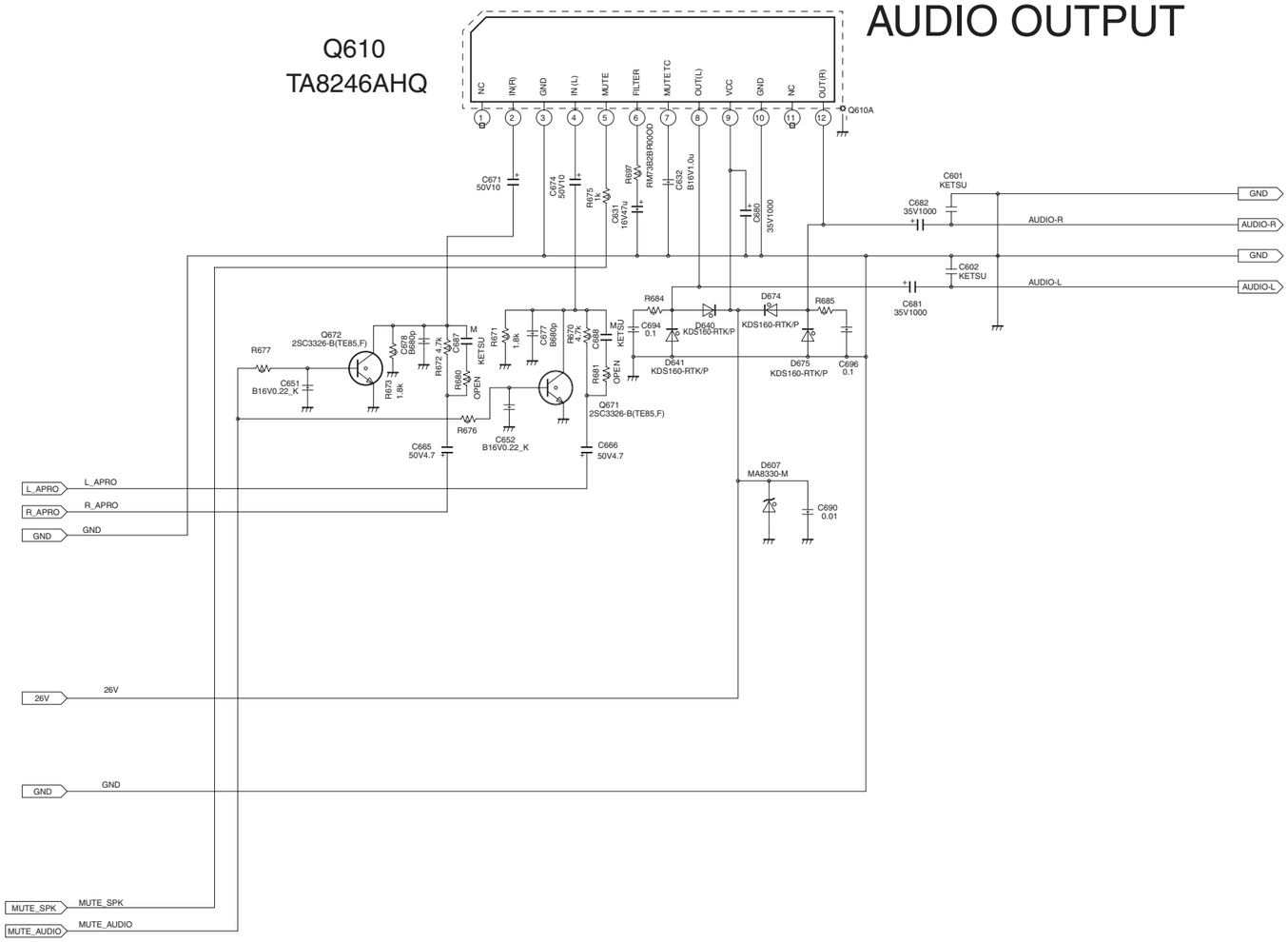
32/37WLT58
TN_AV (AV-TERMINAL)
SHEET-4/11



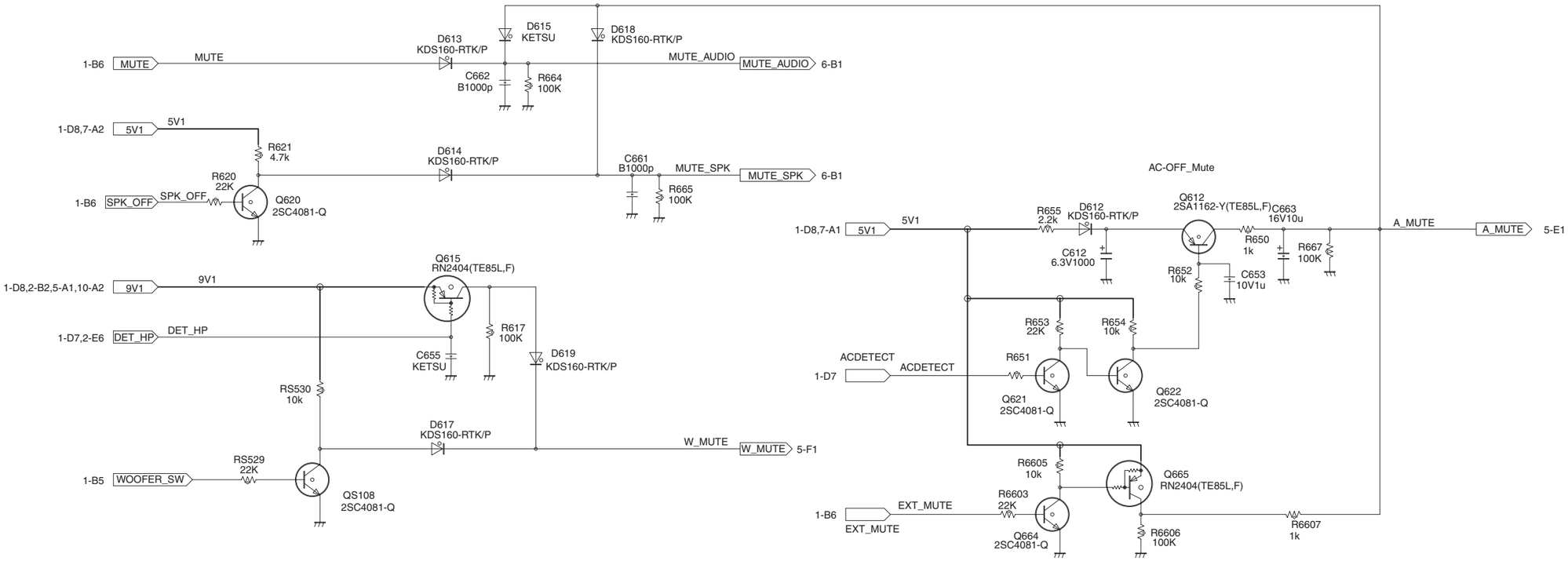
32/37WLT58
TN_AV (AUDIO-SW)
SHEET-5/11

AUDIO OUTPUT

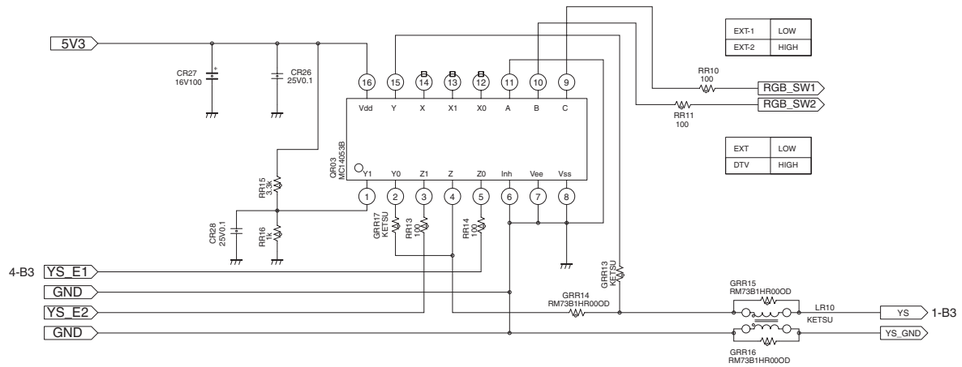
Q610
TA8246AHQ



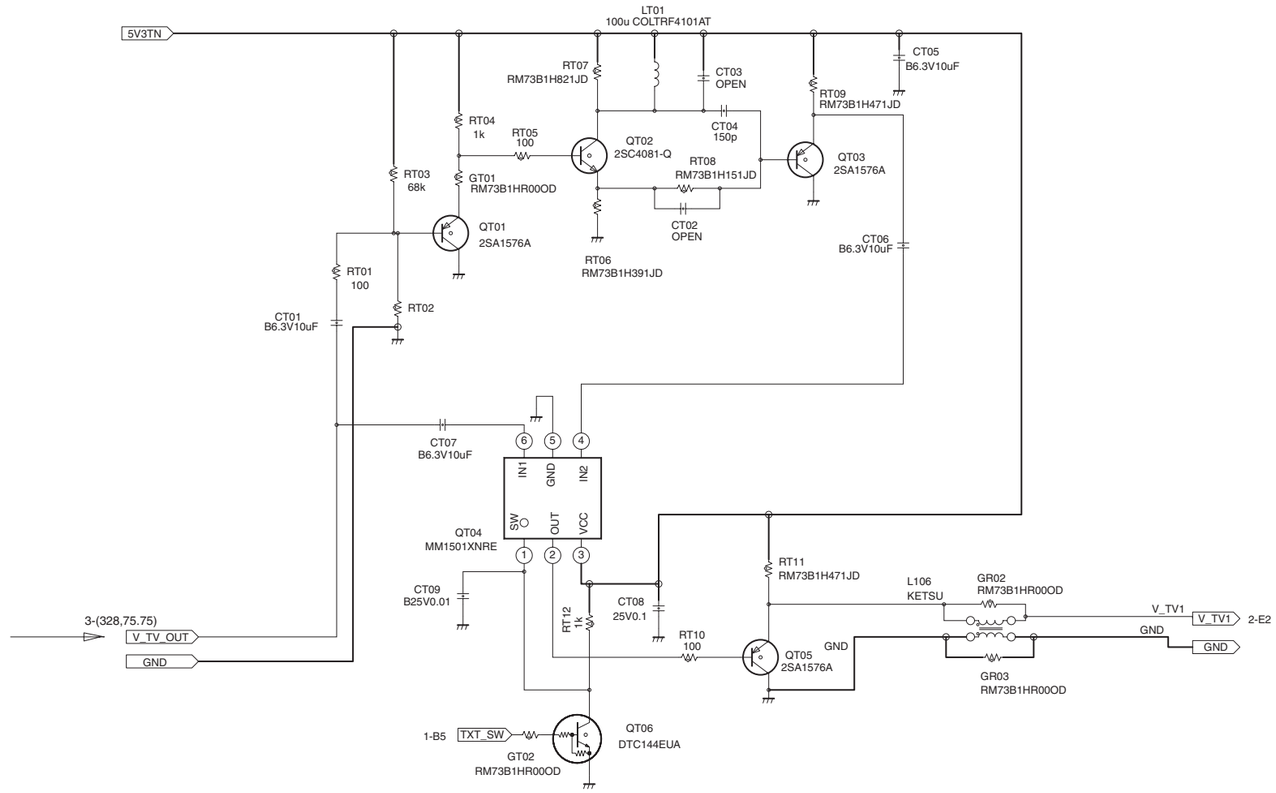
32/37WLT58
TN_AV (A-OUT)
SHEET-6/11



32/37WLT58
TN_AV (AUDIO MUTE)
SHEET-7/11

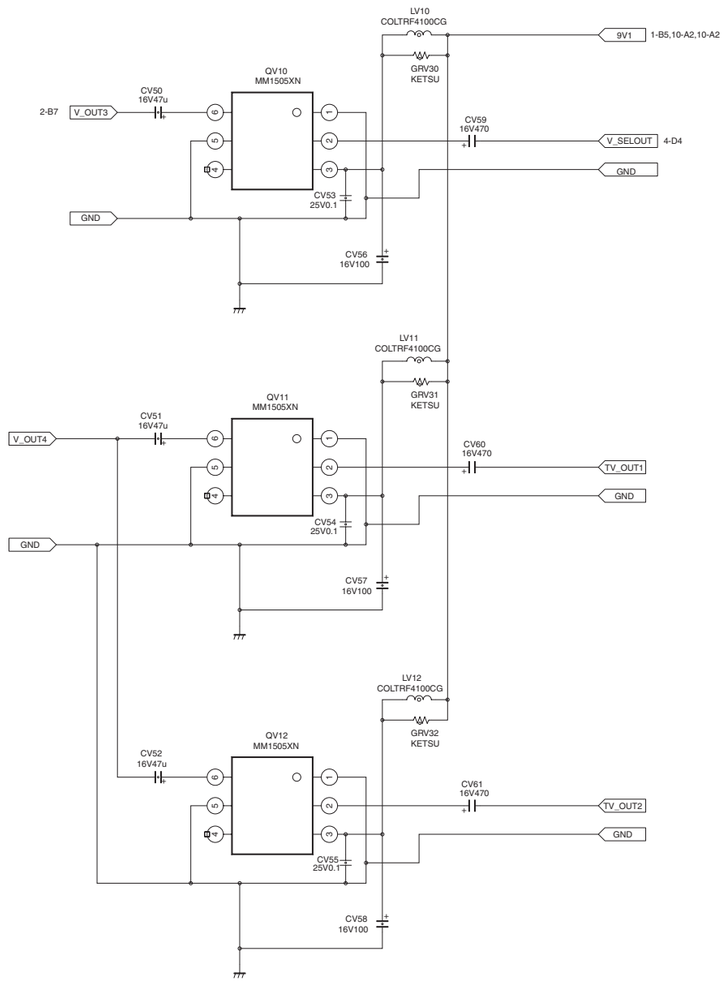


32/37WLT58
TN_AV (RGB_SW)
SHEET-8/11

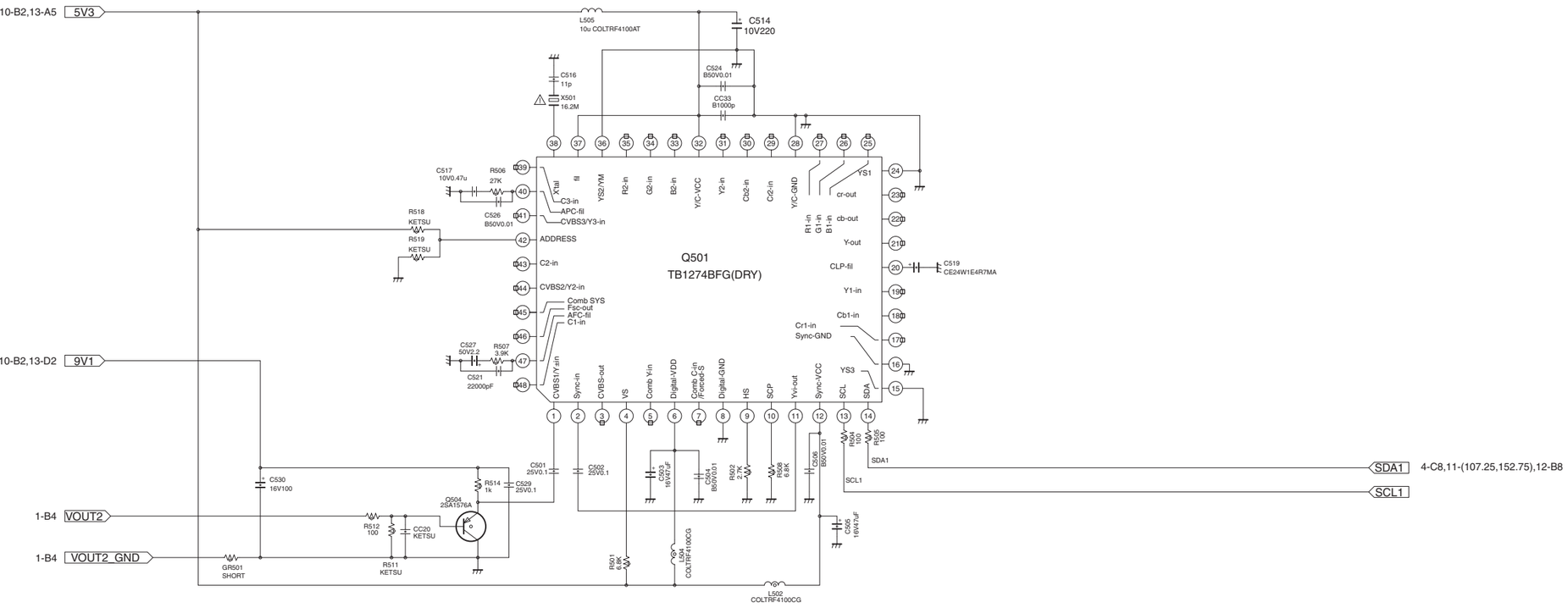


FROM TIF

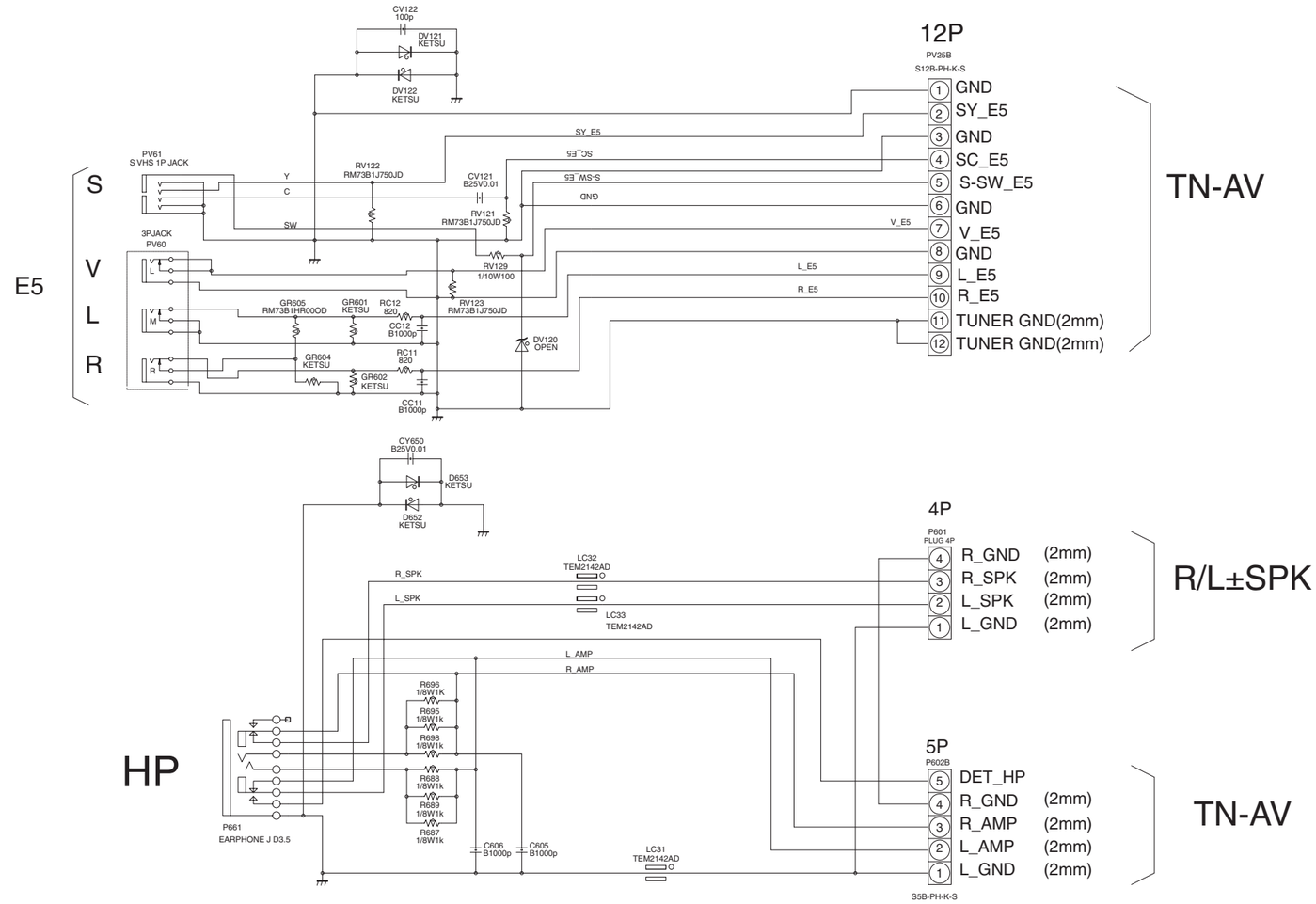
32/37WLT58
TN_AV (TEXT SW)
SHEET-9/11



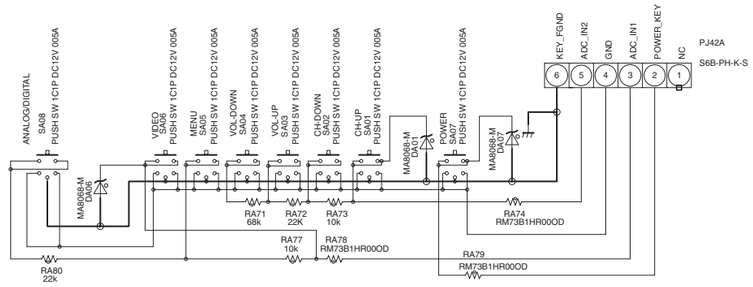
32/37WLT58
TN_AV (TV-OUT)
SHEET-10/11



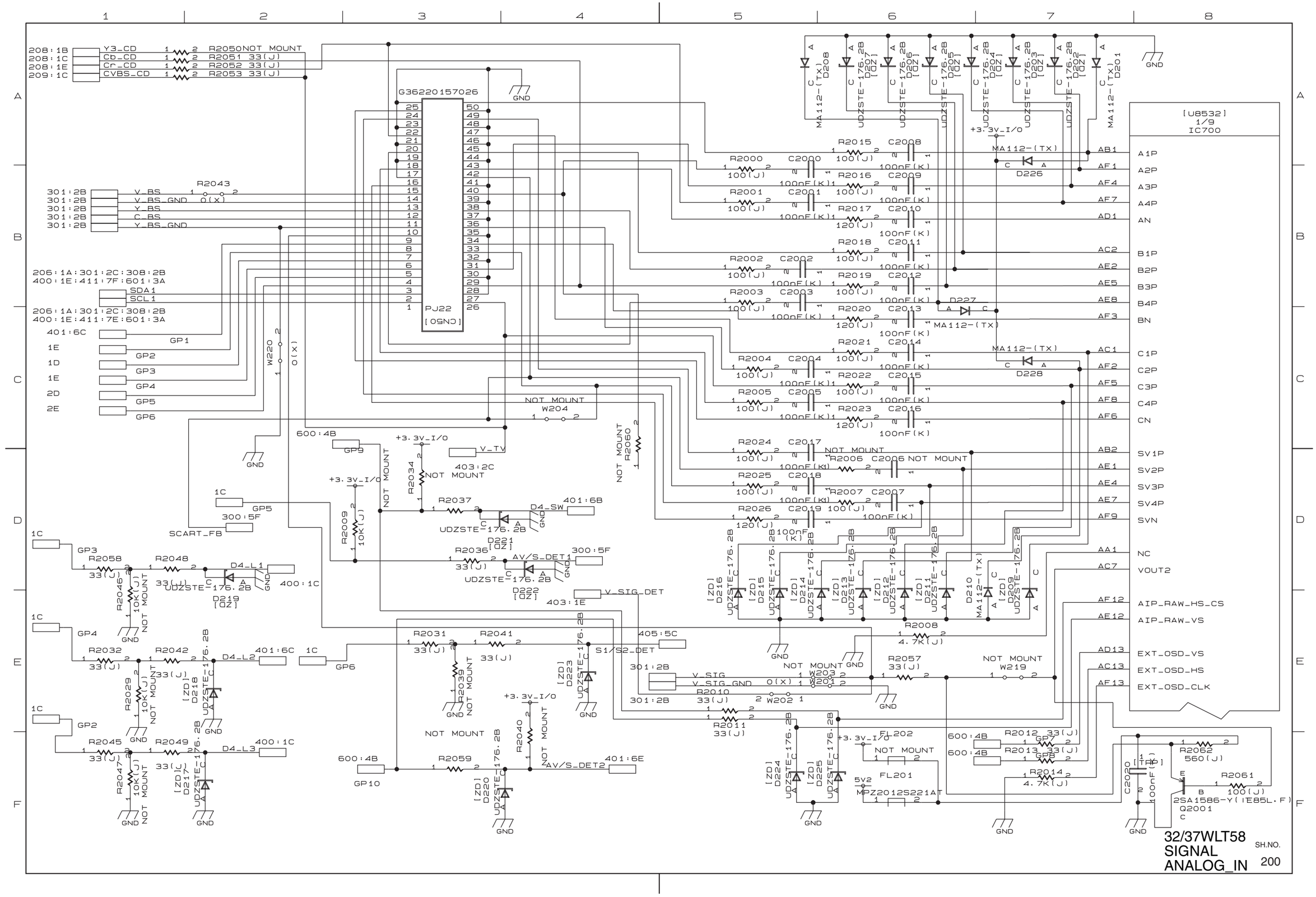
32/37WLT58
TN_AV (VIDEO CHROMA)
SHEET-11/11

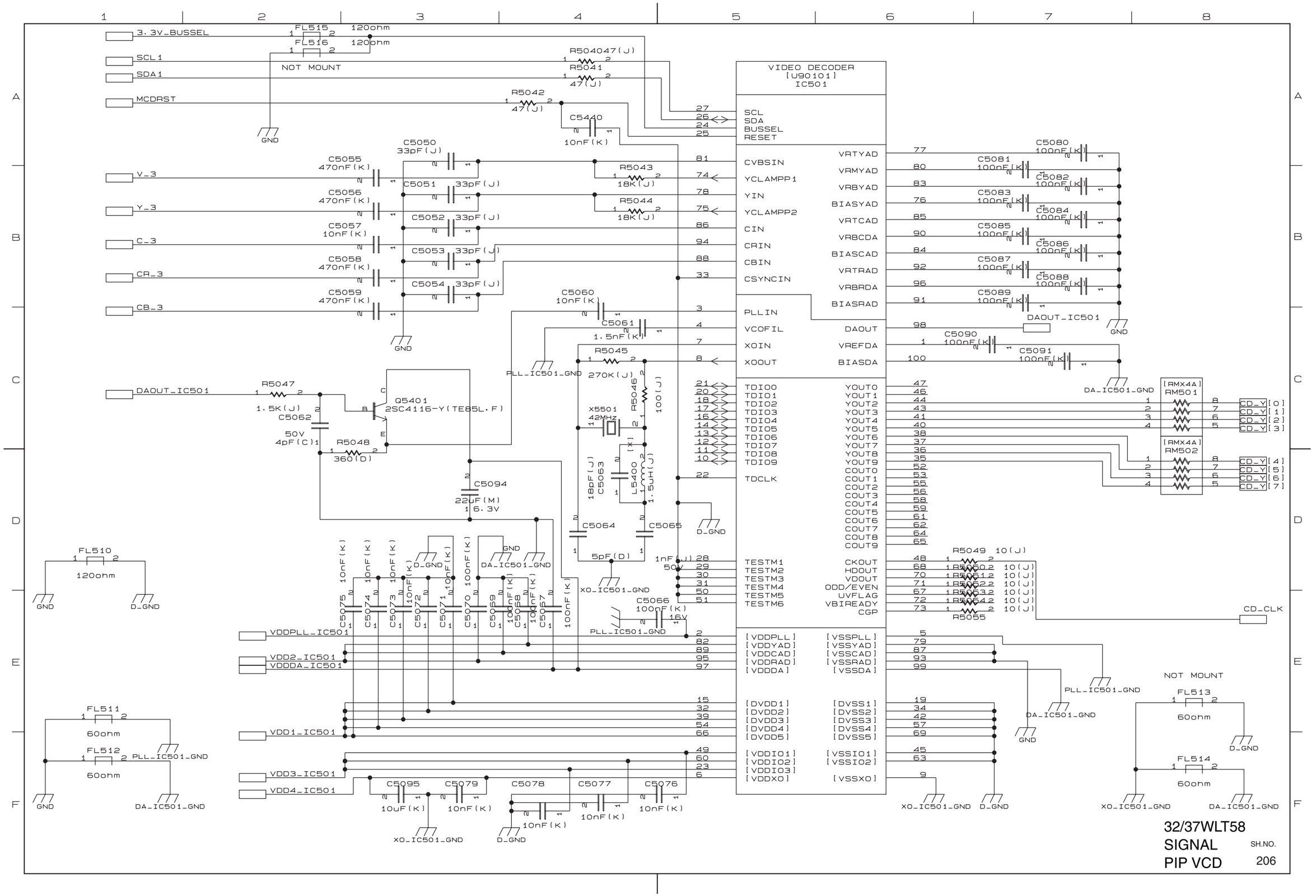


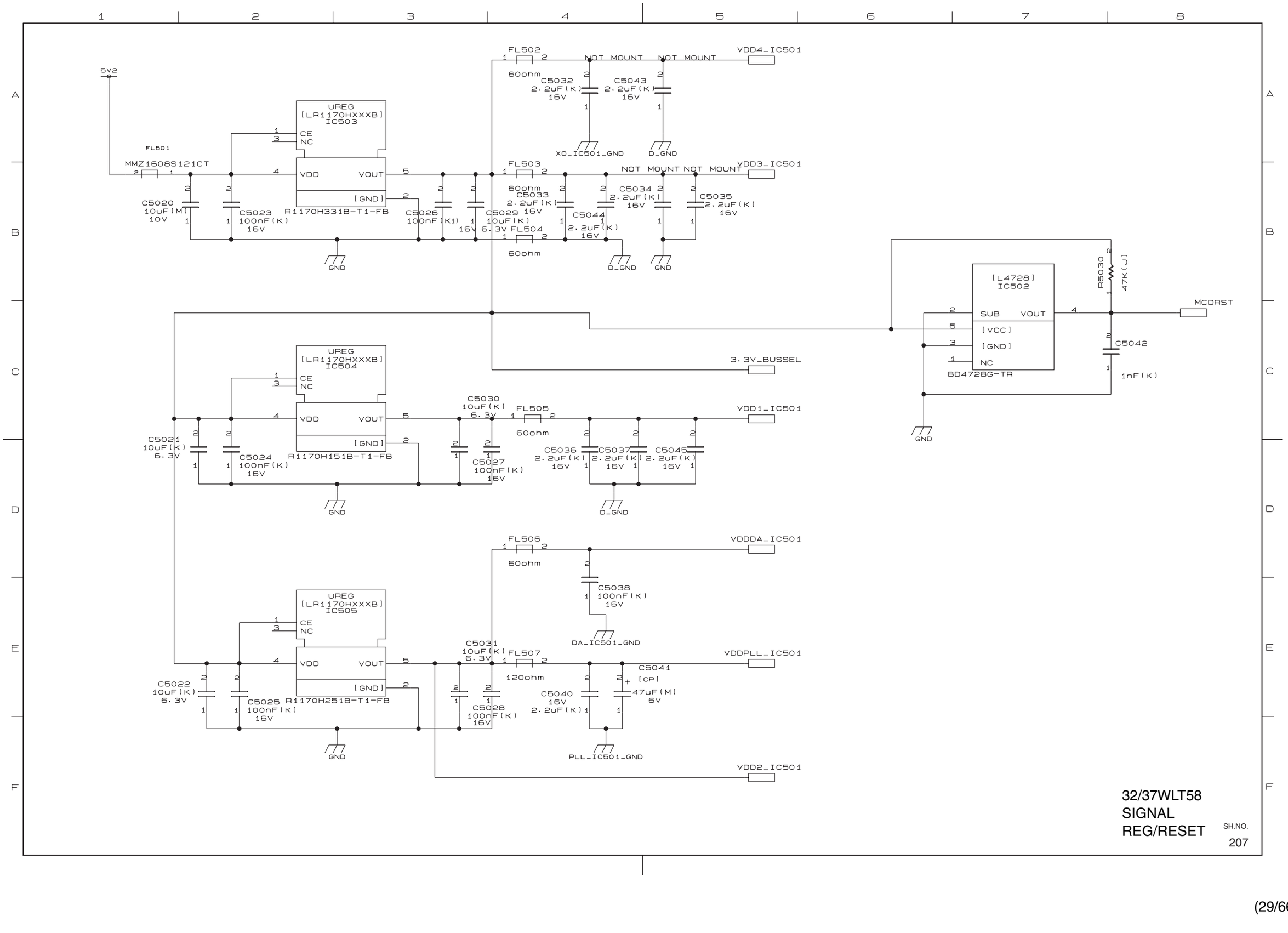
32/37WLT58
FRONT-AV



32/37WLT58
KEY

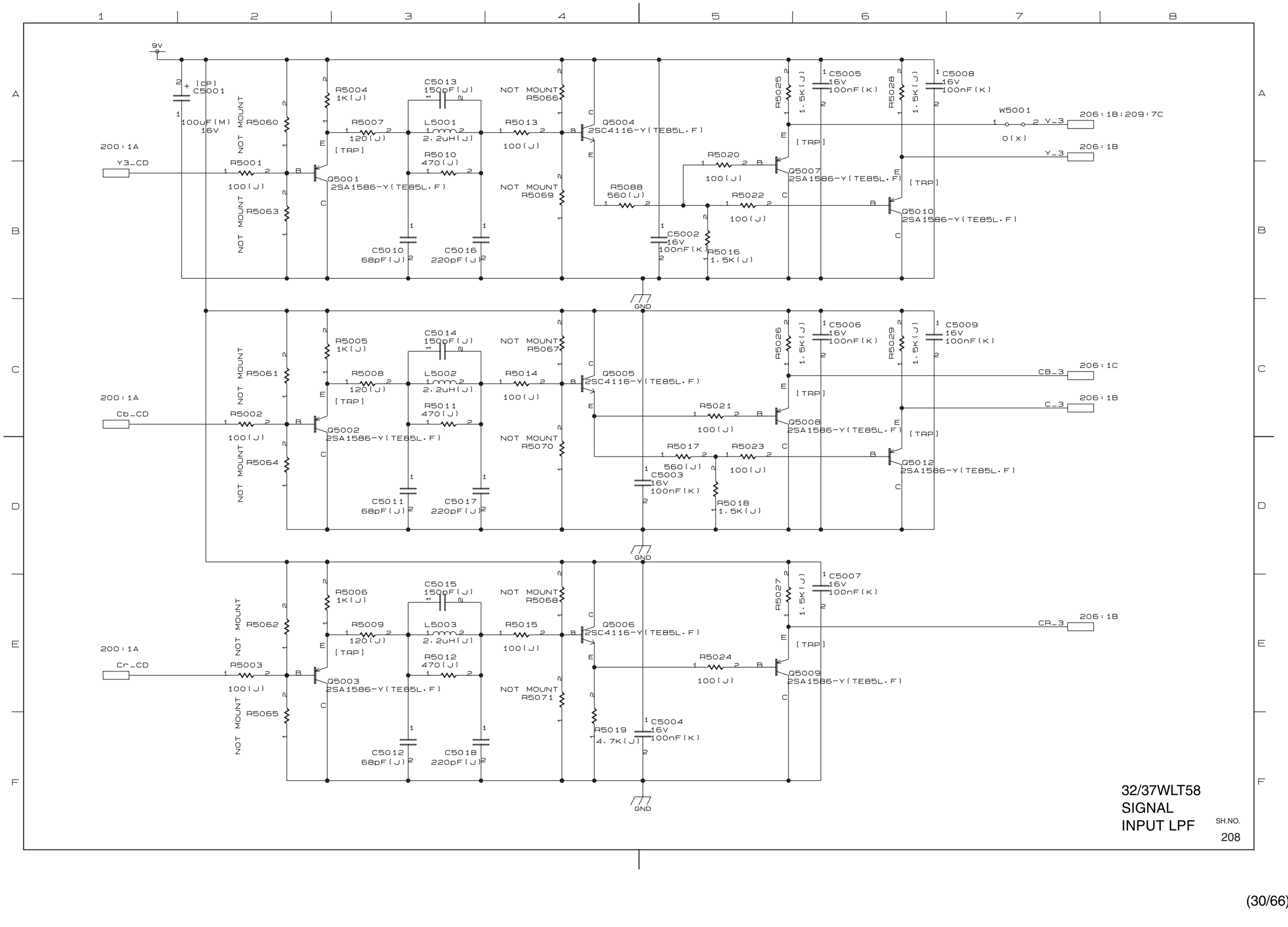

208:1B Y3_CD R2050NOT MOUNT
208:1C CB_CD R2051 33(J)
208:1E CR_CD R2052 33(J)
209:1C CVBS_CD R2053 33(J)
G36220157026
PJ22 [CN50]
R2043
301:2B V_BS
301:2B V_BS_GND 0(X)
301:2B Y_BS
301:2B C_BS
301:2B Y_BS_GND
206:1A:301:2C:308:2B 400:1E:411:7F:601:3A SDA1
SCL1
206:1A:301:2C:308:2B 400:1E:411:7E:601:3A
401:6C GP1
1E GP2
1D GP3
1E GP4
2D GP5
2E GP6
W220 0(X)
NOT MOUNT W204
600:4B GP9
+3.3V_I/O
V_TV 403:2C
R2034 NOT MOUNT
R2009 10K(J) NOT MOUNT
1C GP5 300:5F SCART_FB
R2037 D4_SW 401:6B
D221 [DZ]
R2036 33(J) AV/S_DET1 300:5F
D222 [DZ]
V_SIG_DET 403:1E
1C GP3 R2058 33(J) R2048 33(J) D4_L1 400:1C
D219 [DZ]
R2046 10K(J) NOT MOUNT
1C GP4 R2032 33(J) R2042 33(J) D4_L2 401:6C
D218 [DZ]
R2029 10K(J) NOT MOUNT
1C GP2 R2045 33(J) R2049 33(J) D4_L3 400:1C
D217 [DZ]
R2047 10K(J) NOT MOUNT
1C GP6
R2031 33(J) R2041 33(J) S1/S2_DET 405:5C
R2039 NOT MOUNT
D223 [DZ]
NOT MOUNT R2040 NOT MOUNT
600:4B GP10 R2059 AV/S_DET2 401:6E
D220 [DZ]
301:2B V_SIG V_SIG_GND R2010 33(J) W202
NOT MOUNT W203 W201
R2011 33(J)
R2057 33(J) NOT MOUNT W219
D224 [DZ]
D225 [DZ]
FL202 NOT MOUNT
FL201 5V2 MPZ2012S221AT
600:4B GP7 R2012 33(J)
600:4B GP8 R2013 33(J)
R2014 4.7K(J)
C2020 [TR] 100nF(K)
R2062 560(J)
R2061 100(J)
2SA1586-Y(IE85L.F) Q2001
D226 D227 D228
MA112-(TX) D208
UDZSTE-176.2B [DZ] D207 D206 D205 D204 D203 D202
MA112-(TX) D201
GND
+3.3V_I/O
R2015 C2008 100(J) 100nF(K)
R2000 C2000 100(J) 100nF(K)
R2016 C2009 100(J) 100nF(K)
R2001 C2001 100(J) 100nF(K)
R2017 C2010 120(J) 100nF(K)
R2018 C2011 100(J) 100nF(K)
R2002 C2002 100(J) 100nF(K)
R2019 C2012 100(J) 100nF(K)
R2003 C2003 100(J) 100nF(K)
R2020 C2013 120(J) 100nF(K)
R2021 C2014 100(J) 100nF(K)
R2004 C2004 100(J) 100nF(K)
R2022 C2015 100(J) 100nF(K)
R2005 C2005 100(J) 100nF(K)
R2023 C2016 120(J) 100nF(K)
R2024 C2017 100(J) NOT MOUNT
R2006 C2006 NOT MOUNT 100nF(K)
R2025 C2018 100(J) 100nF(K)
R2007 C2007 100nF(K)
R2026 C2019 100(J) 120(J) 100nF(K)
[ZD] D216 D215 D214 D213 D212 D211 UDZSTE-176.2B
D210 MA112-(TX)
[ZD] D209 UDZSTE-175.2B
R2008 4.7K(J)
[U8532] 1/9 IC700
A1P A2P A3P A4P AN B1P B2P B3P B4P BN C1P C2P C3P C4P CN
AB1 AF1 AF4 AF7 AD1 AC2 AE2 AE5 AE8 AF3 AC1 AF2 AF5 AF8 AF6
SV1P SV2P SV3P SV4P SVN
AB2 AE1 AE4 AE7 AF9
NC VOUT2
AA1 AC7
AIP_RAW_HS_CS AIP_RAW_VS
AF12 AE12
EXT_OSD_VS EXT_OSD_HS EXT_OSD_CLK
AD13 AC13 AF13
32/37WLT58
SIGNAL
ANALOG_IN
SH.NO. 200

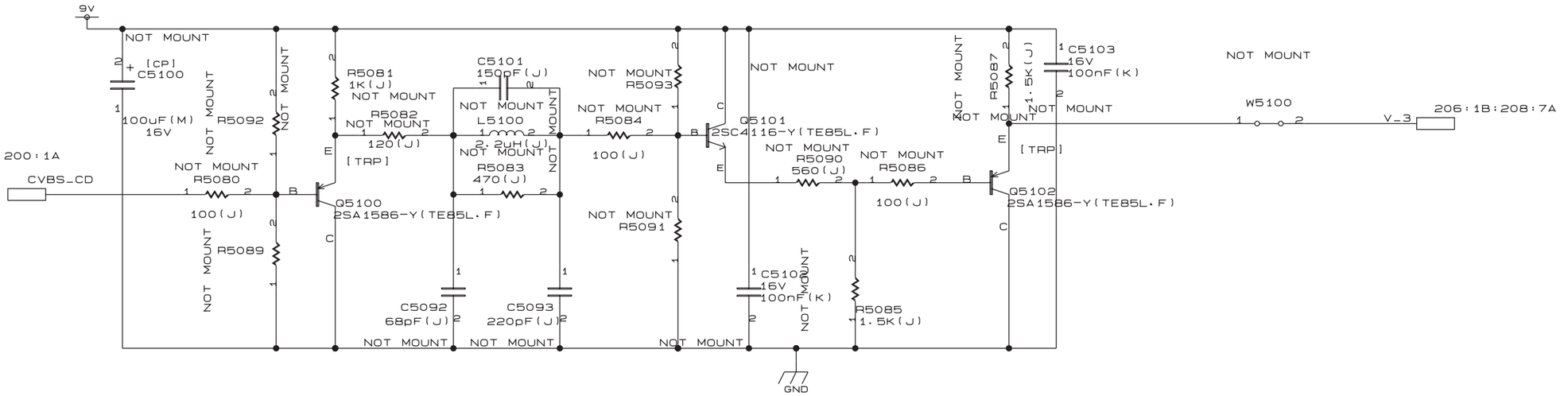

VIDEO DECODER
[U90101]
IC501
3.3V_BUSSEL
SCL1
SDA1
MCDRST
FL515 120ohm
FL516 120ohm
NOT MOUNT
R504047(J)
R5041 47(J)
R5042 47(J)
C5440 10nF(K)
SCL
SDA
BUSSEL
RESET
V_3
Y_3
C_3
CR_3
CB_3
C5055 470nF(K)
C5056 470nF(K)
C5057 10nF(K)
C5058 470nF(K)
C5059 470nF(K)
C5050 33pF(J)
C5051 33pF(J)
C5052 33pF(J)
C5053 33pF(J)
C5054 33pF(J)
R5043 18K(J)
R5044 18K(J)
CVBSIN
YCLAMPP1
YIN
YCLAMPP2
CIN
CRIN
CBIN
CSYNCIN
C5060 10nF(K)
C5061 1.5nF(K)
R5045 270K(J)
PLL_IC501_GND
PLLIN
VCOFIL
XOIN
XOOUT
DAOUT_IC501
R5047 1.5K(J)
C5062 50V 4pF(C)
R5048 360(D)
Q5401 2SC4116-Y(TE85L.F)
X5501 42MHz
R5046 100(J)
C5063 18pF(J)
L5400 1.5uH(J)
C5064
C5065 5pF(D)
C5094 22uF(M) 16.3V
D_GND
XO_IC501_GND
C5066 100nF(K) 16V
PLL_IC501_GND
TDIO0
TDIO1
TDIO2
TDIO3
TDIO4
TDIO5
TDIO6
TDIO7
TDIO8
TDIO9
TDCLK
TESTM1
TESTM2
TESTM3
TESTM4
TESTM5
TESTM6
VRTYAD
VRMYAD
VRBYAD
BIASYAD
VRTCAD
VRBCDA
BIASCAD
VRTRAD
VRBRDA
BIASRAD
DAOUT
VREFDA
BIASDA
YOUT0
YOUT1
YOUT2
YOUT3
YOUT4
YOUT5
YOUT6
YOUT7
YOUT8
YOUT9
COUT0
COUT1
COUT2
COUT3
COUT4
COUT5
COUT6
COUT7
COUT8
COUT9
CKOUT
HDOUT
VDOUT
ODD/EVEN
UVFLAG
VBIREADY
CGP
C5080 100nF(K)
C5081 100nF(K)
C5082 100nF(K)
C5083 100nF(K)
C5084 100nF(K)
C5085 100nF(K)
C5086 100nF(K)
C5087 100nF(K)
C5088 100nF(K)
C5089 100nF(K)
DAOUT_IC501
C5090 100nF(K)
C5091 100nF(K)
DA_IC501_GND
[RMX4A] RM501
[RMX4A] RM502
CD_Y[0]
CD_Y[1]
CD_Y[2]
CD_Y[3]
CD_Y[4]
CD_Y[5]
CD_Y[6]
CD_Y[7]
R5049 10(J)
R5050 10(J)
R5051 10(J)
R5052 10(J)
R5053 10(J)
R5054 10(J)
R5055
CD_CLK
FL510 120ohm
FL511 60ohm
FL512 60ohm
FL513 60ohm
FL514 60ohm
C5075 10nF(K)
C5074 10nF(K)
C5073 10nF(K)
C5072 10nF(K)
C5071 10nF(K)
C5070 10nF(K)
C5069 100nF(K)
C5068 100nF(K)
C5067 100nF(K)
C5095 10uF(K)
C5079 10nF(K)
C5078 10nF(K)
C5077 10nF(K)
C5076 10nF(K)
VDDPLL_IC501
VDD2_IC501
VDDDA_IC501
VDD1_IC501
VDD3_IC501
VDD4_IC501
[VDDPLL]
[VDDYAD]
[VDDCAD]
[VDDRAD]
[VDDDA]
[VSSPLL]
[VSSYAD]
[VSSCAD]
[VSSRAD]
[VSSDA]
[DVDD1]
[DVDD2]
[DVDD3]
[DVDD4]
[DVDD5]
[DVSS1]
[DVSS2]
[DVSS3]
[DVSS4]
[DVSS5]
[VDDIO1]
[VDDIO2]
[VDDIO3]
[VDDXO]
[VSSIO1]
[VSSIO2]
[VSSXO]
GND
D_GND
DA_IC501_GND
PLL_IC501_GND
XO_IC501_GND
32/37WLT58
SIGNAL
PIP VCD
SH.NO.
206



32/37WLT58
SIGNAL
REG/RESET

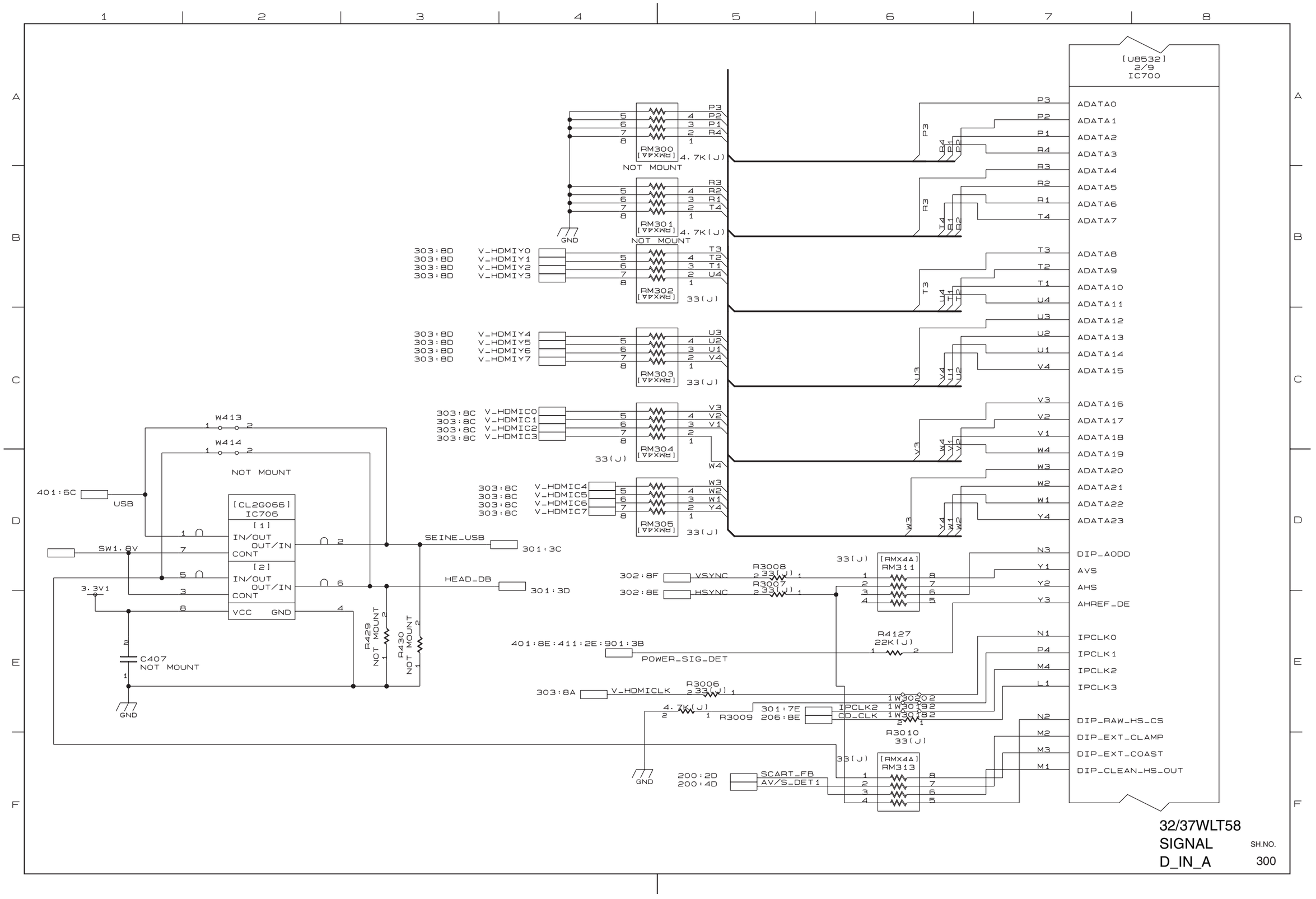
SH.NO.
207


9V
C5001
[cp]
100uF(M)
16V
R5060
NOT MOUNT
R5004
1K(J)
C5013
150pF(J)
R5007
120(J)
L5001
2.2uH(J)
[TRP]
R5001
100(J)
Y3_CD
Q5001
2SA1586-Y(TE85L.F)
R5010
470(J)
R5063
C5010
68pF(J)
C5016
220pF(J)
R5066
R5013
100(J)
Q5004
2SC4116-Y(TE85L.F)
R5069
R5088
560(J)
C5002
16V
100nF(K)
R5016
1.5K(J)
R5022
100(J)
R5020
100(J)
Q5007
2SA1586-Y(TE85L.F)
Q5010
2SA1586-Y(TE85L.F)
R5025
1.5K(J)
C5005
16V
100nF(K)
R5028
1.5K(J)
C5008
16V
100nF(K)
W5001
O(X)
Y_3
206:1B:209:7C
206:1B
200:1A
GND
R5061
R5005
1K(J)
C5014
150pF(J)
R5008
120(J)
L5002
2.2uH(J)
R5002
100(J)
Cb_CD
Q5002
2SA1586-Y(TE85L.F)
R5011
470(J)
R5064
C5011
68pF(J)
C5017
220pF(J)
R5067
R5014
100(J)
Q5005
2SC4116-Y(TE85L.F)
R5070
R5017
560(J)
C5003
16V
100nF(K)
R5018
1.5K(J)
R5023
100(J)
R5021
100(J)
Q5008
2SA1586-Y(TE85L.F)
Q5012
2SA1586-Y(TE85L.F)
R5026
1.5K(J)
C5006
16V
100nF(K)
R5029
1.5K(J)
C5009
16V
100nF(K)
CB_3
C_3
206:1C
206:1B
R5062
R5006
1K(J)
C5015
150pF(J)
R5009
120(J)
L5003
2.2uH(J)
R5003
100(J)
Cr_CD
Q5003
2SA1586-Y(TE85L.F)
R5012
470(J)
R5065
C5012
68pF(J)
C5018
220pF(J)
R5068
R5015
100(J)
Q5006
2SC4116-Y(TE85L.F)
R5071
R5019
4.7K(J)
C5004
16V
100nF(K)
R5024
100(J)
Q5009
2SA1586-Y(TE85L.F)
R5027
1.5K(J)
C5007
16V
100nF(K)
CR_3
206:1B
32/37WLT58
SIGNAL
INPUT LPF
SH.NO.
208

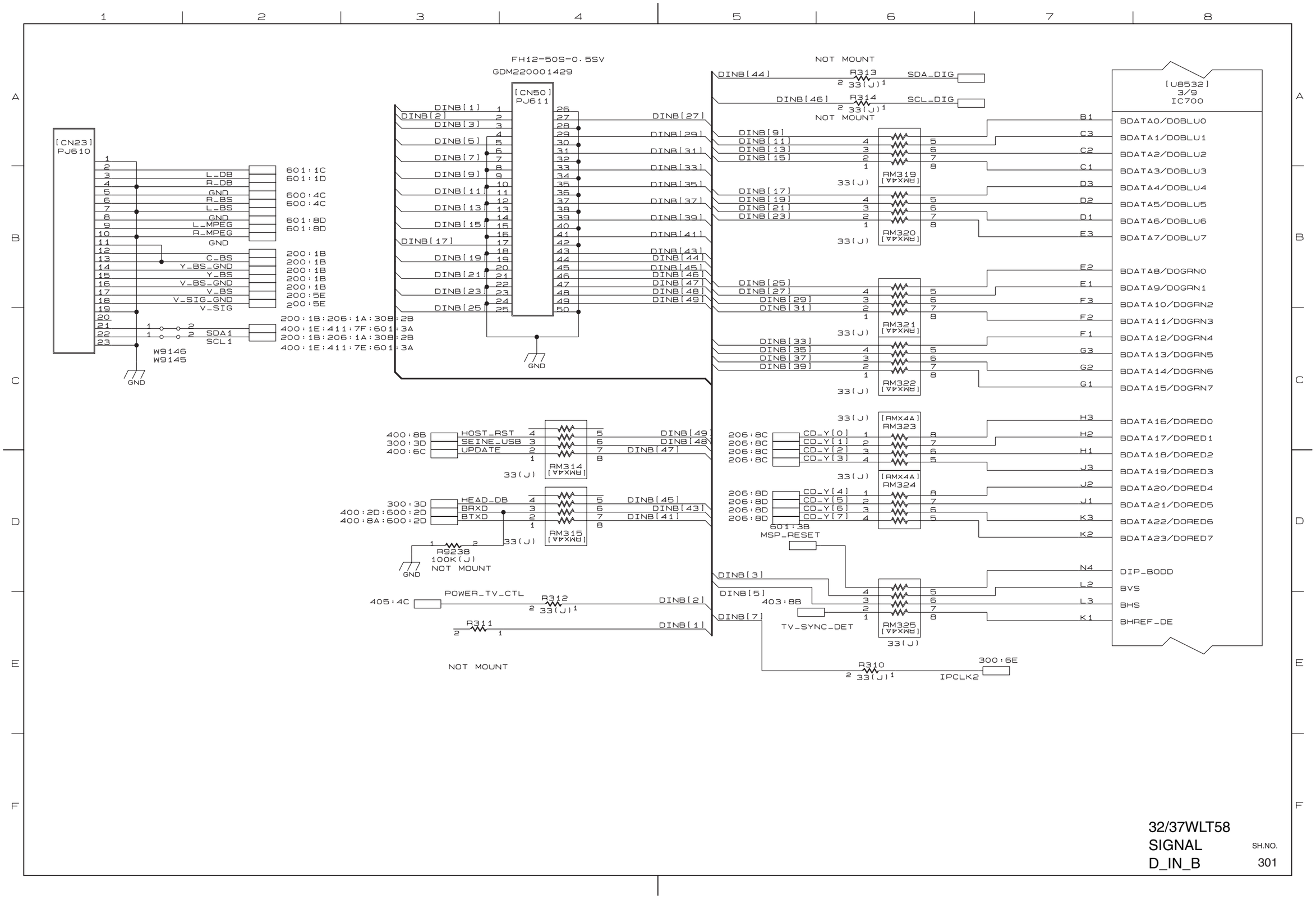


32/37WLT58
SIGNAL
FUNCTION

SH.NO.
209

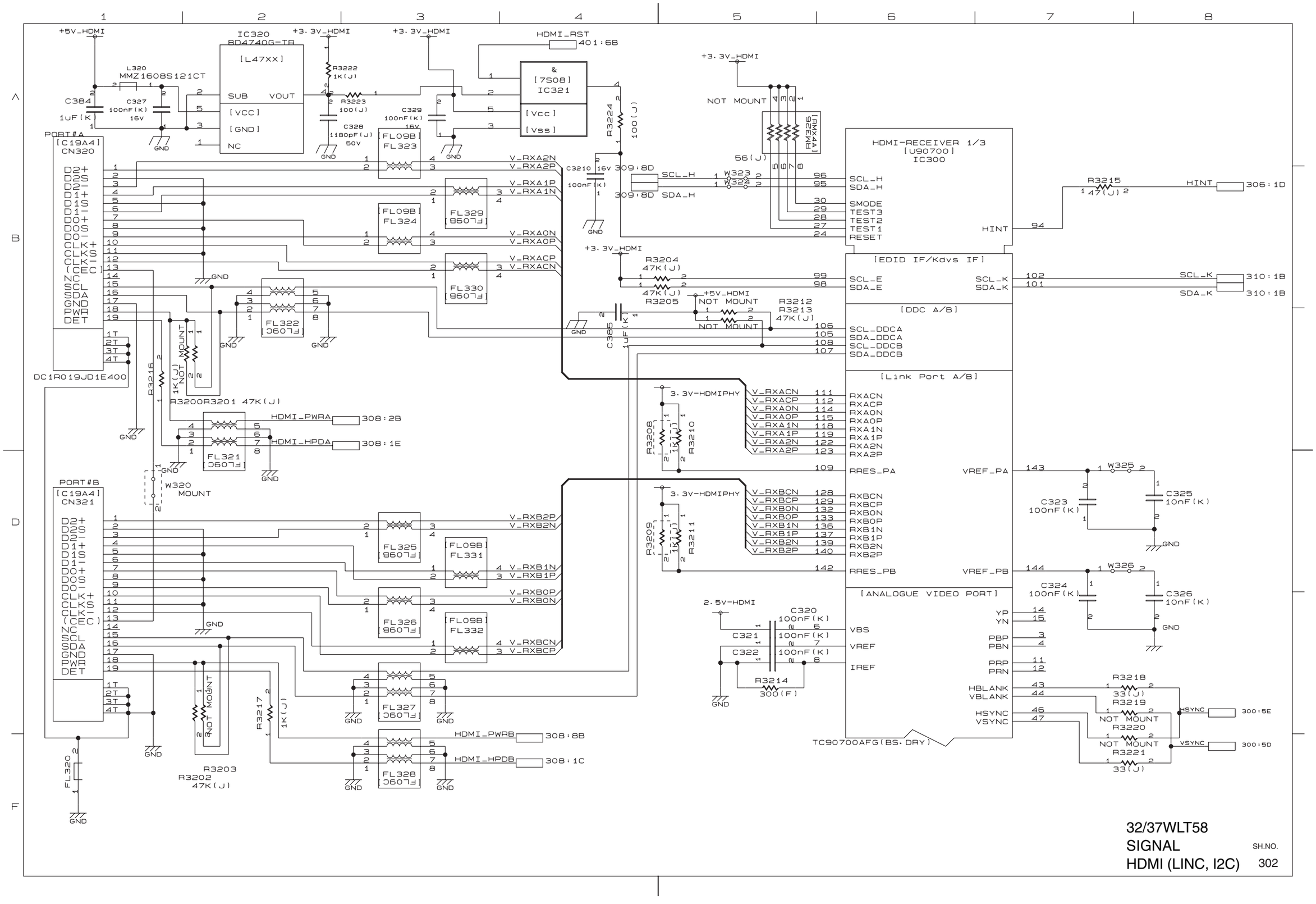


32/37WLT58
SIGNAL D_IN_A
SH.NO. 300



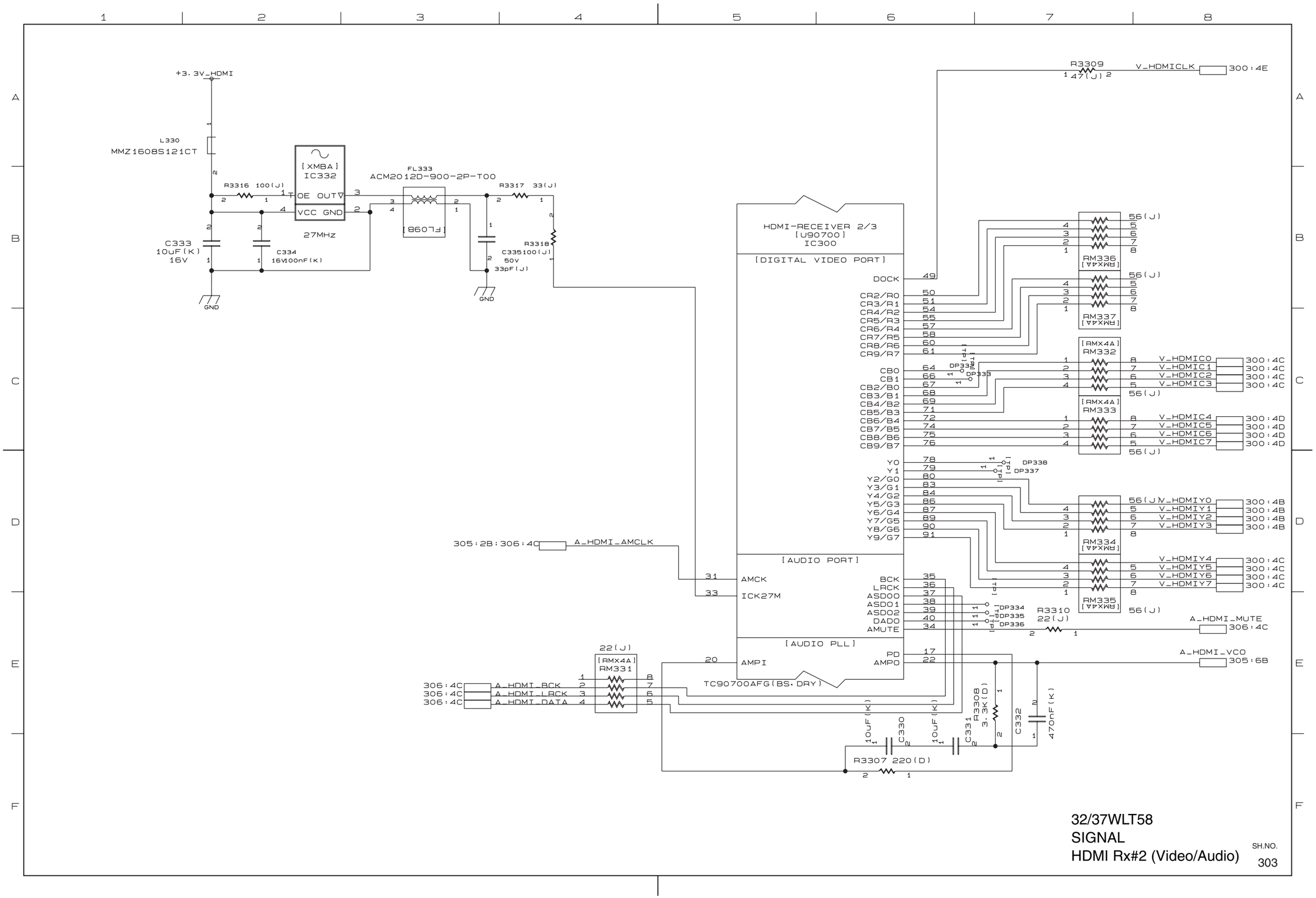
32/37WLT58
SIGNAL
D_IN_B

SH.NO.
301



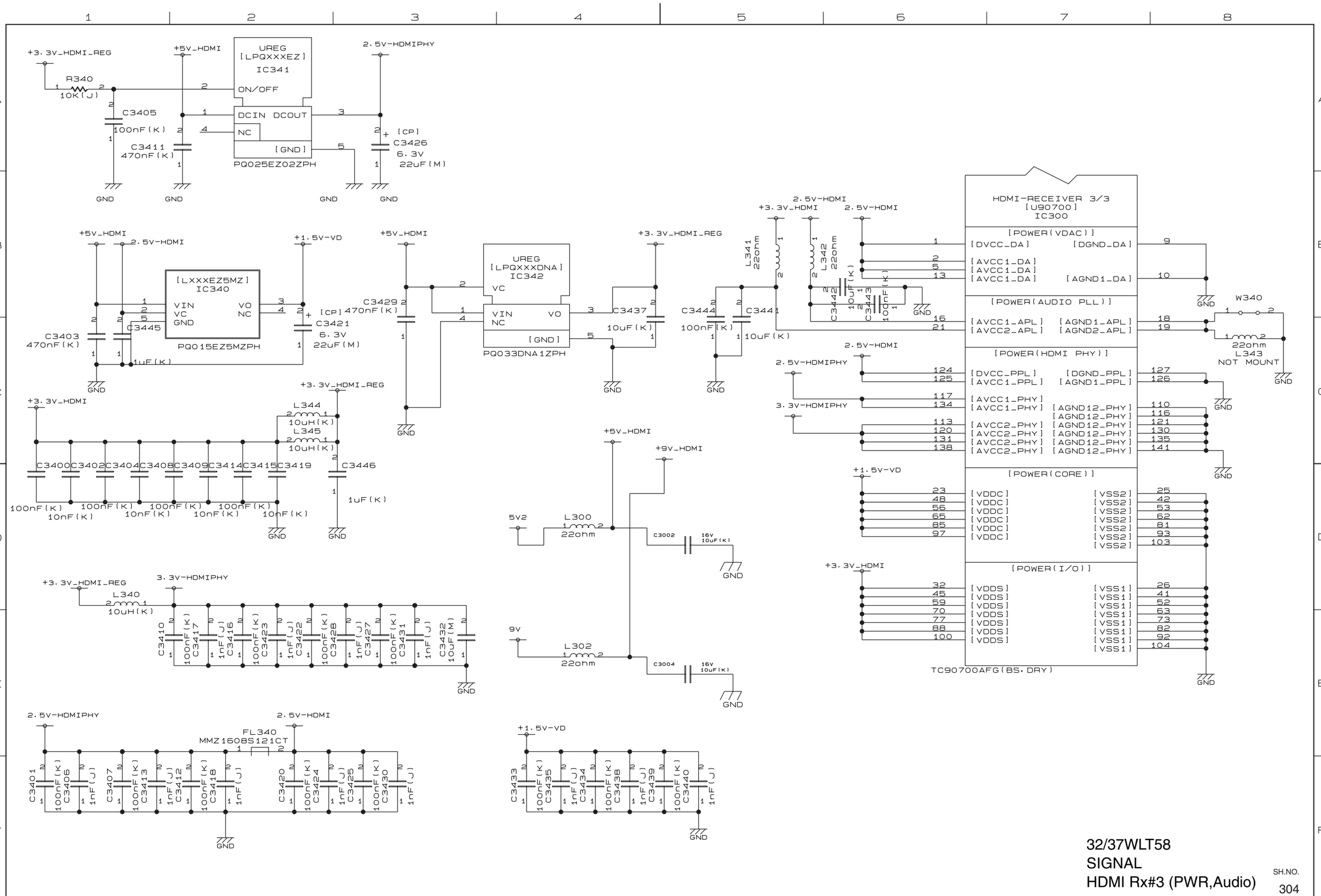
32/37WLT58
SIGNAL
HDMI (LINC, I2C)

SH.NO.
302



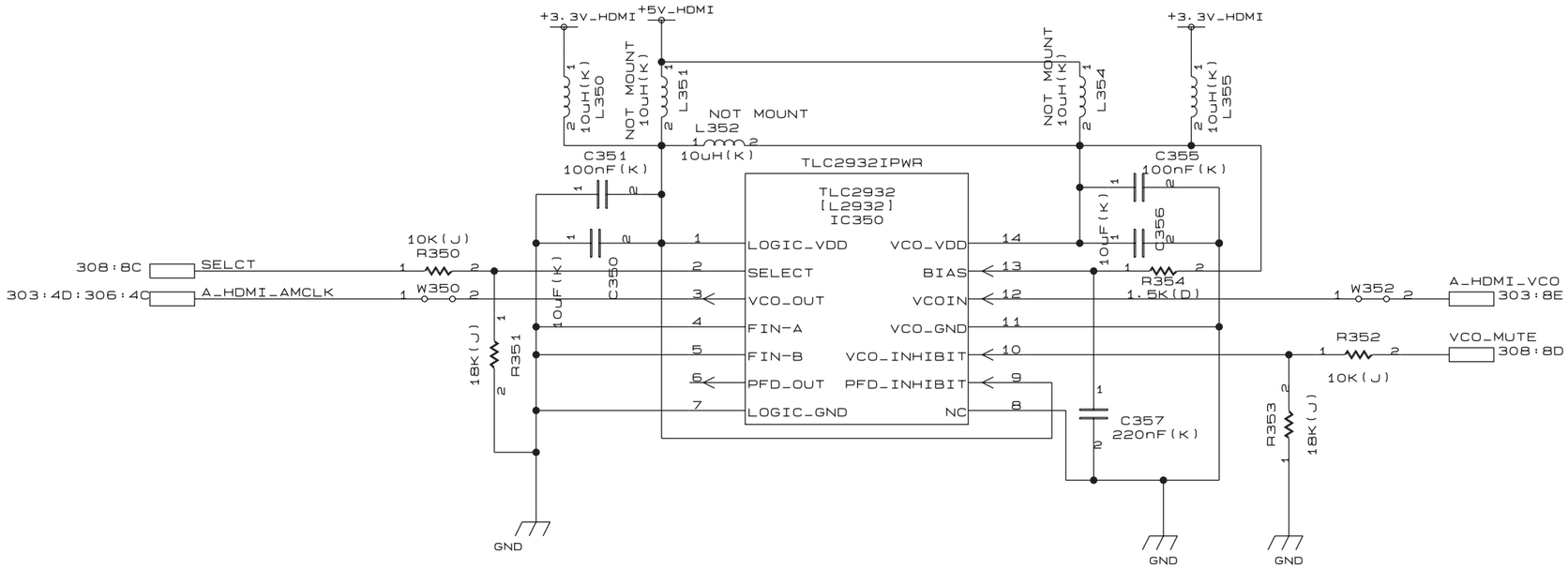
32/37WLT58
SIGNAL
HDMI Rx#2 (Video/Audio)

SH.NO.
303



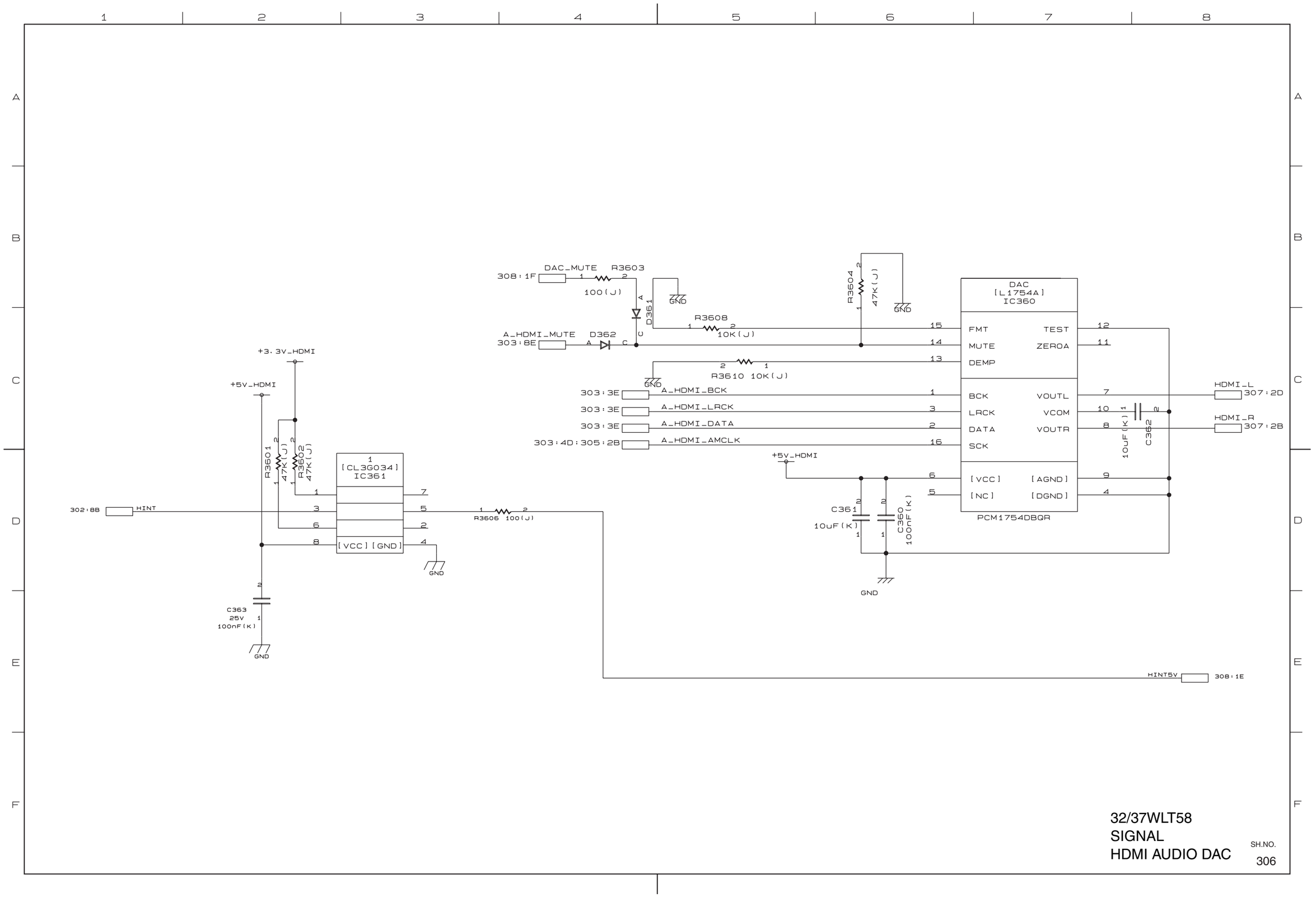
32/37WLT58
SIGNAL
HDMI Rx#3 (PWR,Audio)

SH.NO.
304



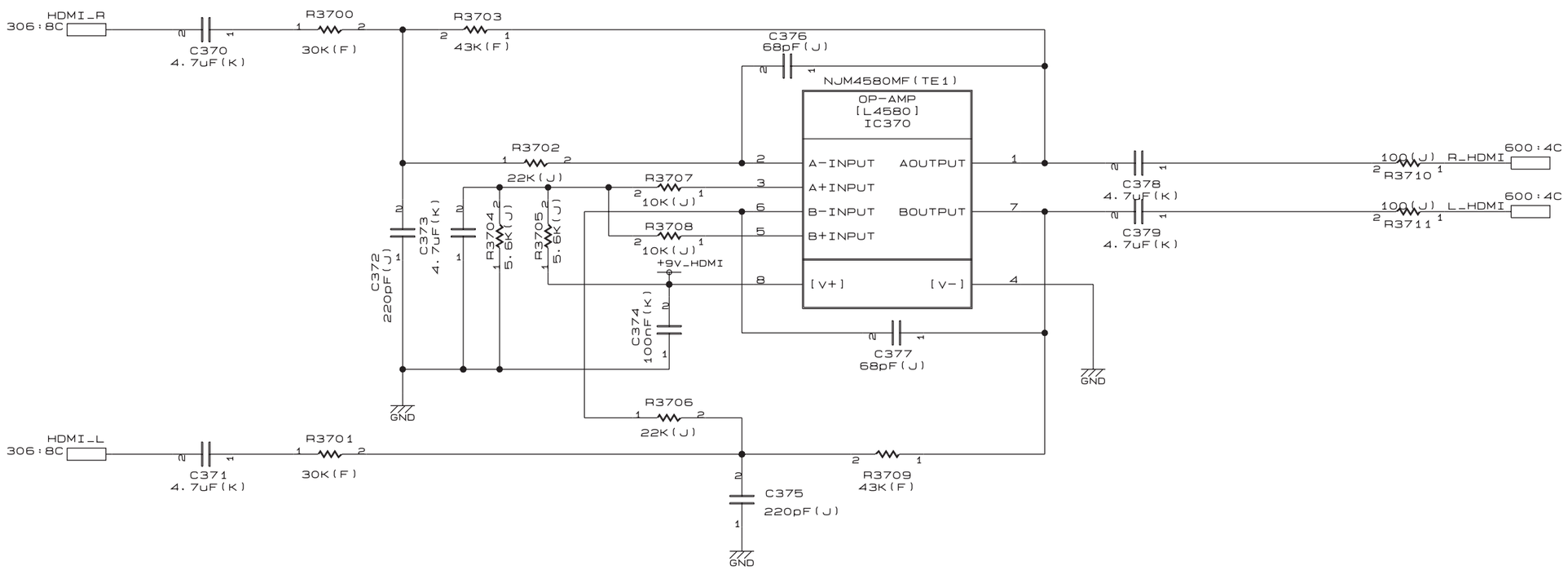
32/37WLT58
SIGNAL
HDMI AUDIO PLL

SH.NO.
305



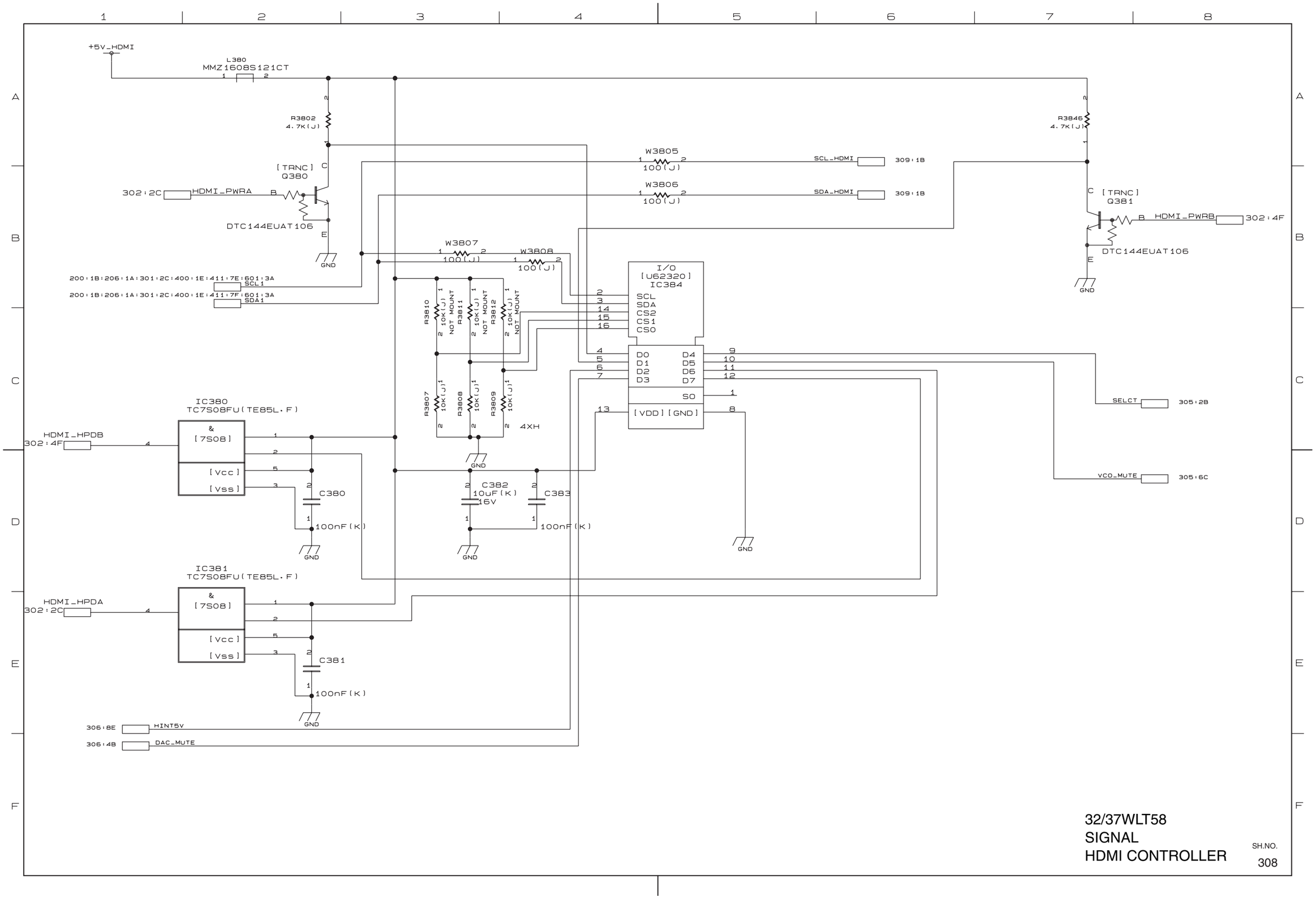
32/37WLT58
SIGNAL
HDMI AUDIO DAC

SH.NO.
306



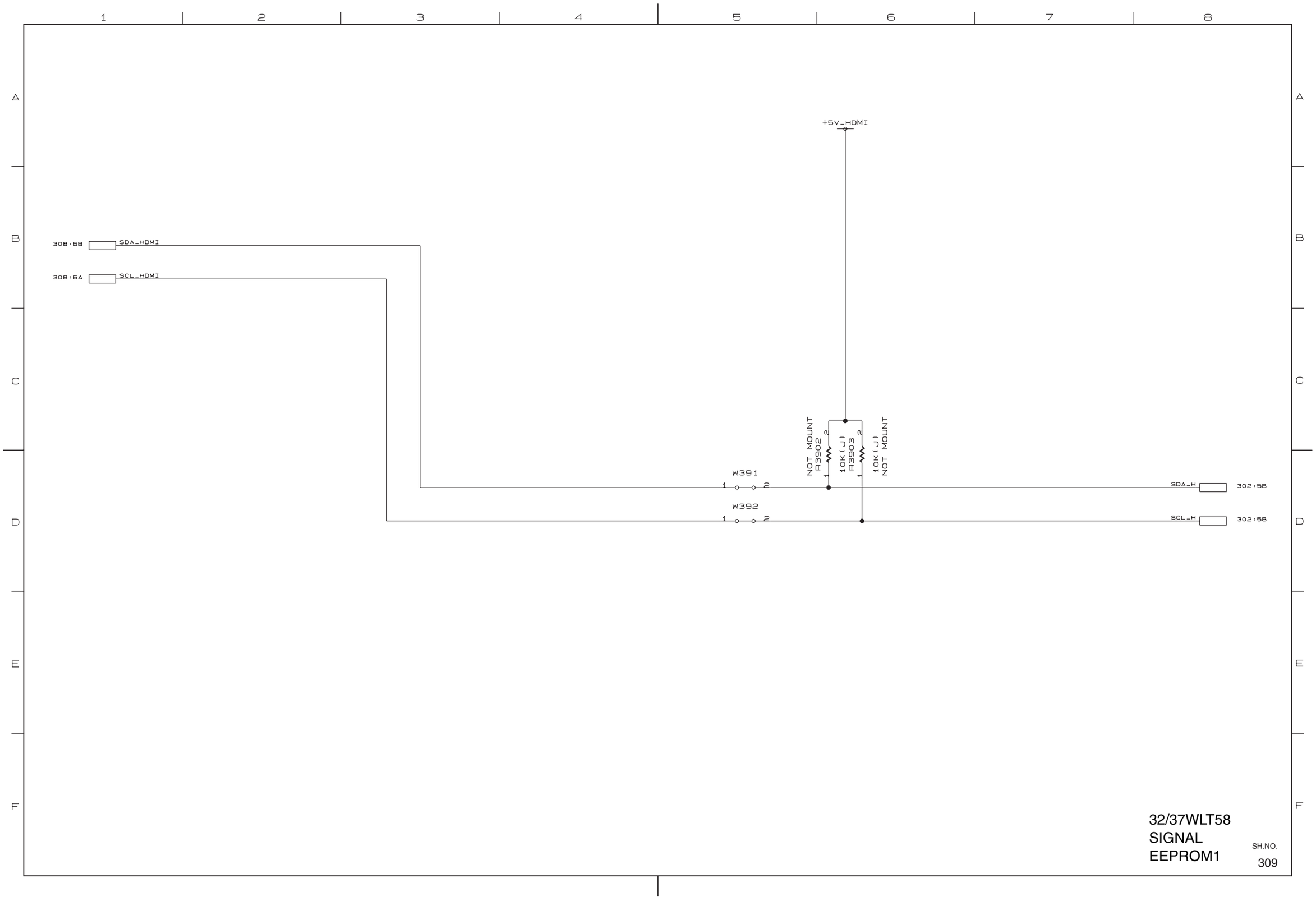
32/37WLT58
SIGNAL
HDMI AUDIO OUT

SH.NO.
307



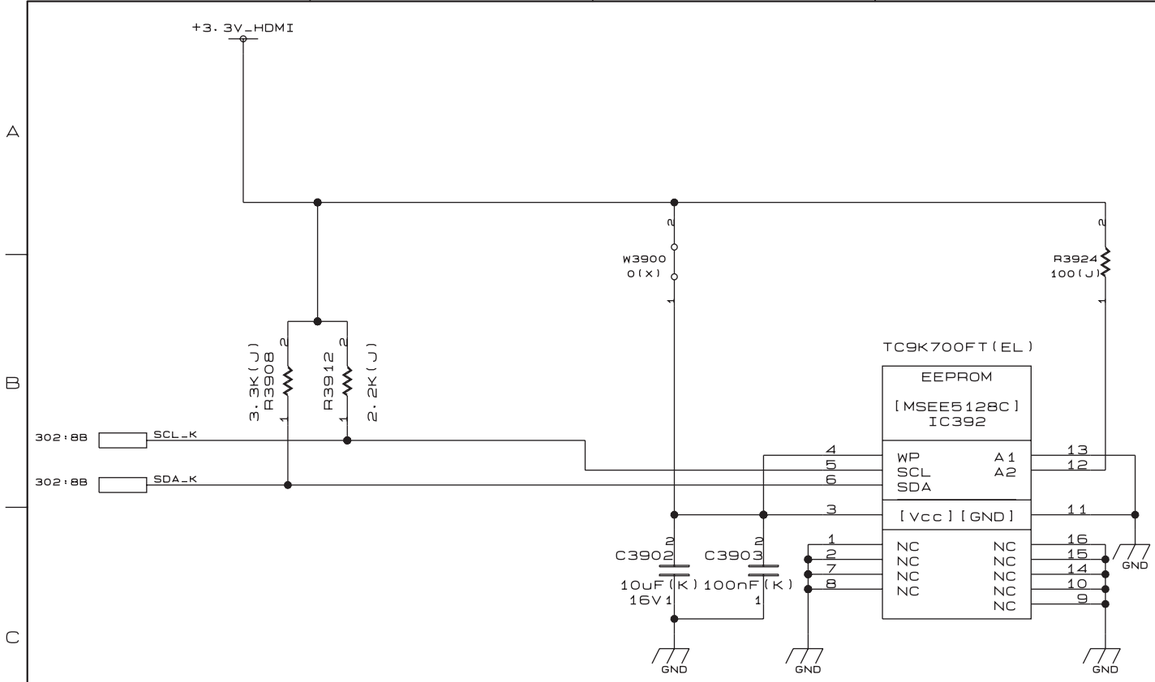
32/37WLT58
SIGNAL
HDMI CONTROLLER

SH.NO.
308



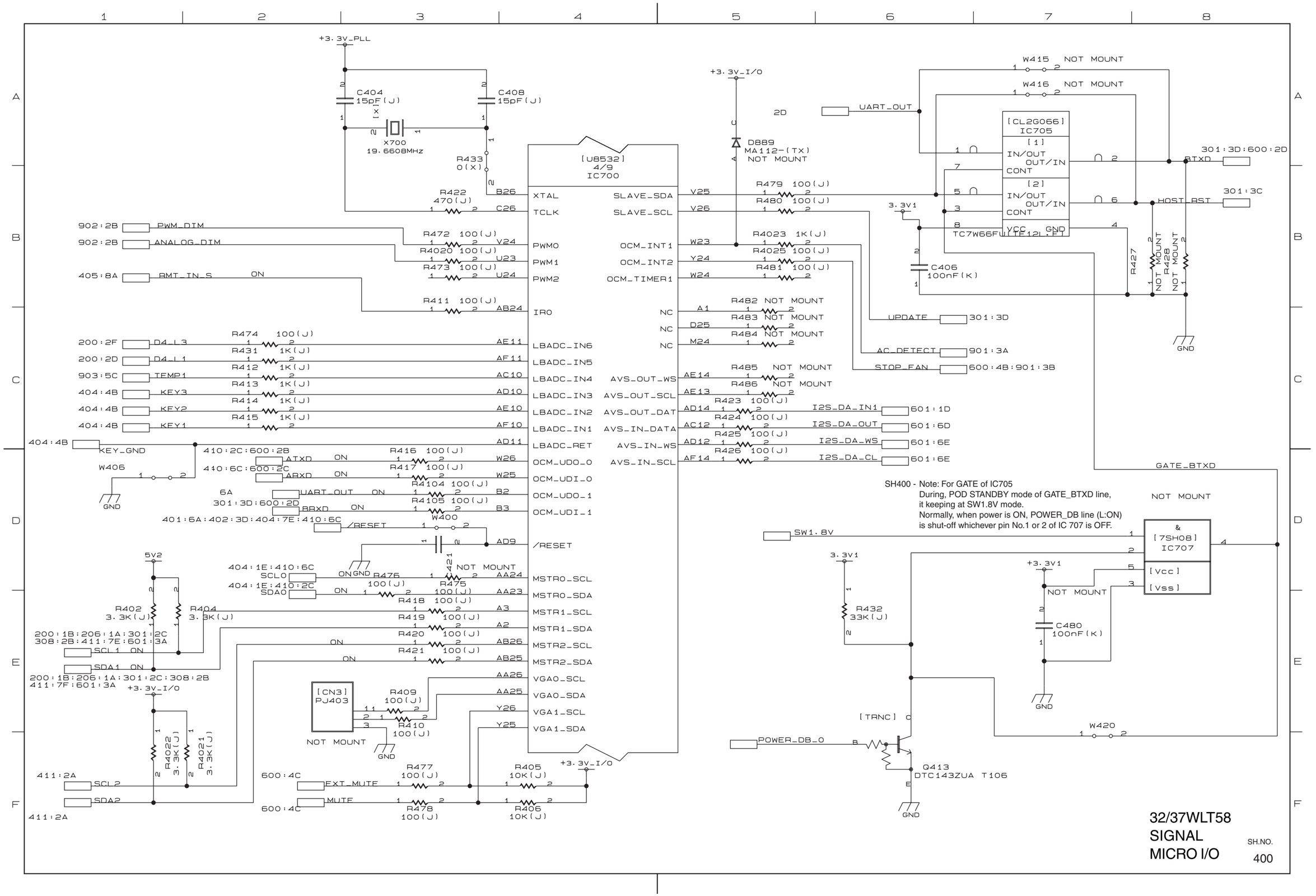
32/37WLT58
SIGNAL
EEPROM1

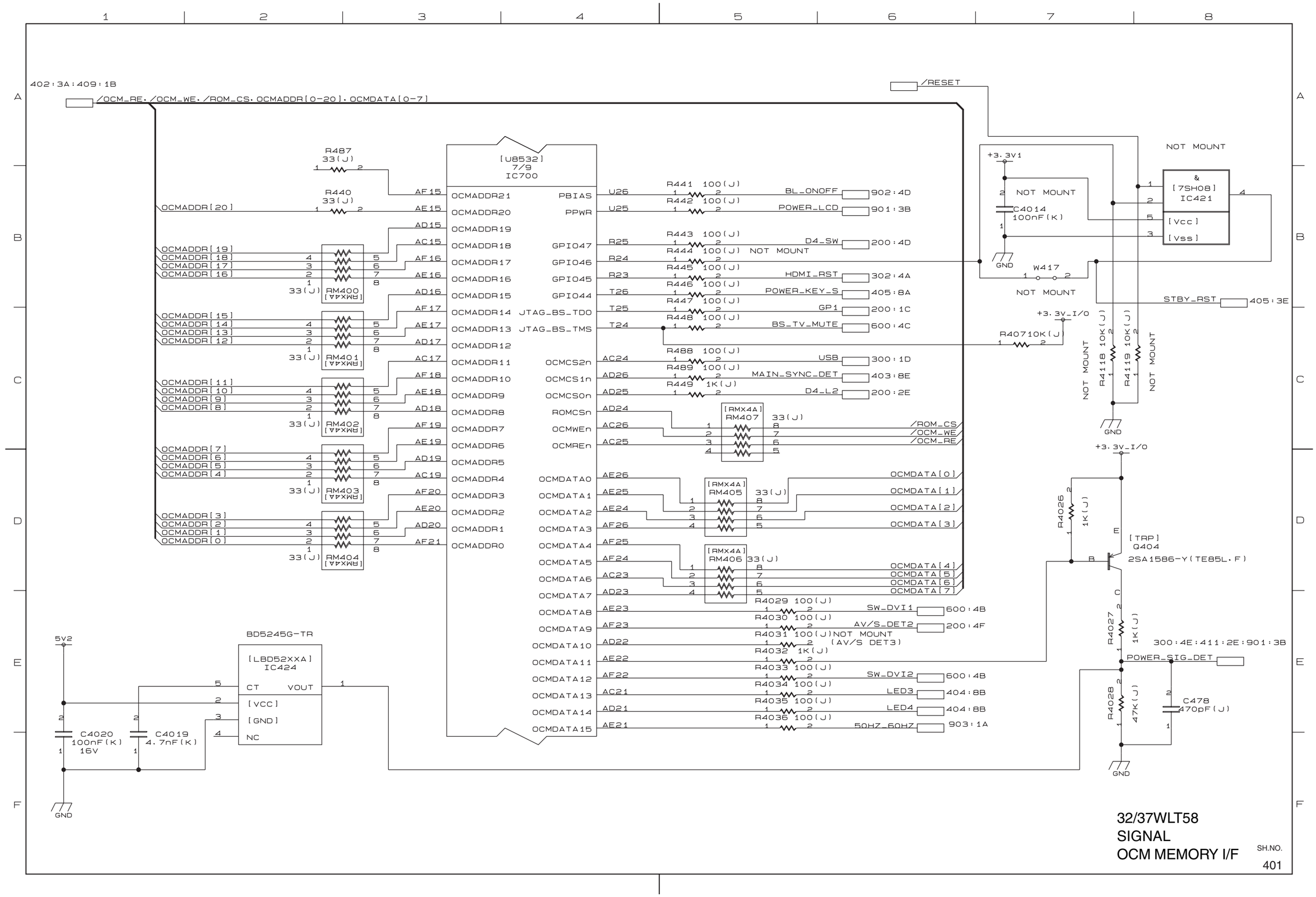
SH.NO.
309



32/37WLT58
SIGNAL
EEPROM2

SH.NO.
310


+3.3V_PLL
C404 15pF(J)
C408 15pF(J)
X700 19.6608MHz
R433 0(X)
[U8532] 4/9 IC700
XTAL
TCLK
R422 470(J)
B26
C26
902:2B PWM_DIM
902:2B ANALOG_DIM
405:8A RMT_IN_S
ON
R472 100(J)
R4020 100(J)
R473 100(J)
R411 100(J)
PWM0
PWM1
PWM2
IRO
V24
U23
U24
AB24
200:2F D4_L3
200:2D D4_L1
903:5C TEMP1
404:4B KEY3
404:4B KEY2
404:4B KEY1
404:4B KEY_GND
R474 100(J)
R431 1K(J)
R412 1K(J)
R413 1K(J)
R414 1K(J)
R415 1K(J)
W406
GND
LBADC_IN6
LBADC_IN5
LBADC_IN4
LBADC_IN3
LBADC_IN2
LBADC_IN1
LBADC_RET
AE11
AF11
AC10
AD10
AE10
AF10
AD11
410:2C:600:2B ATXD
410:6C:600:2C ARXD
6A UART_OUT
301:3D:600:2D BRXD
ON
R416 100(J)
R417 100(J)
R4104 100(J)
R4105 100(J)
W26
W25
B2
B3
OCM_UDO_0
OCM_UDI_0
OCM_UDO_1
OCM_UDI_1
401:6A:402:3D:404:7E:410:6C /RESET
W400
AD9
/RESET
5V2
R402 3.3K(J)
R404 3.3K(J)
200:1B:206:1A:301:2C
308:2B:411:7E:601:3A
SCL1 ON
SDA1 ON
200:1B:206:1A:301:2C:308:2B
411:7F:601:3A
+3.3V_I/O
R4022 3.3K(J)
R4021 3.3K(J)
411:2A SCL2
SDA2
411:2A
404:1E:410:6C SCL0
404:1E:410:2C SDA0
ON GND
R421 NOT MOUNT
R476 100(J)
R475 100(J)
R418 100(J)
R419 100(J)
R420 100(J)
R421 100(J)
AA24
AA23
A3
A2
AB26
AB25
MSTR0_SCL
MSTR0_SDA
MSTR1_SCL
MSTR1_SDA
MSTR2_SCL
MSTR2_SDA
[CN3] PJ403
NOT MOUNT
R409 100(J)
R410 100(J)
AA26
AA25
Y26
Y25
VGA0_SCL
VGA0_SDA
VGA1_SCL
VGA1_SDA
600:4C EXT_MUTE
600:4C MUTE
R477 100(J)
R478 100(J)
R405 10K(J)
R406 10K(J)
+3.3V_I/O
XTAL
TCLK
PWM0
PWM1
PWM2
IRO
LBADC_IN6
LBADC_IN5
LBADC_IN4
LBADC_IN3
LBADC_IN2
LBADC_IN1
LBADC_RET
OCM_UDO_0
OCM_UDI_0
OCM_UDO_1
OCM_UDI_1
/RESET
MSTR0_SCL
MSTR0_SDA
MSTR1_SCL
MSTR1_SDA
MSTR2_SCL
MSTR2_SDA
VGA0_SCL
VGA0_SDA
VGA1_SCL
VGA1_SDA
SLAVE_SDA
SLAVE_SCL
OCM_INT1
OCM_INT2
OCM_TIMER1
NC
NC
NC
AVS_OUT_WS
AVS_OUT_SCL
AVS_OUT_DAT
AVS_IN_DATA
AVS_IN_WS
AVS_IN_SCL
+3.3V_I/O
D889 MA112-(TX) NOT MOUNT
2D
UART_OUT
V25
V26
W23
Y24
W24
A1
D25
M24
AE14
AE13
AD14
AC12
AD12
AF14
R479 100(J)
R480 100(J)
R4023 1K(J)
R4025 100(J)
R481 100(J)
R482 NOT MOUNT
R483 NOT MOUNT
R484 NOT MOUNT
R485 NOT MOUNT
R486 NOT MOUNT
R423 100(J)
R424 100(J)
R425 100(J)
R426 100(J)
I2S_DA_IN1
I2S_DA_OUT
I2S_DA_WS
I2S_DA_CL
601:1D
601:6D
601:6E
601:6E
3.3V1
C406 100nF(K)
UPDATE
AC_DETECT
STOP_FAN
301:3D
901:3A
600:4B:901:3B
W415 NOT MOUNT
W416 NOT MOUNT
[CL2G066] IC705
[1] IN/OUT OUT/IN CONT
[2] IN/OUT OUT/IN CONT
VCC GND
TC7W66FU(TE12L,F)
301:3D:600:2D
RTXD
301:3C
HOST_RST
R427
R428 NOT MOUNT
GND
GATE_BTXD
SH400 - Note: For GATE of IC705
During, POD STANDBY mode of GATE_BTXD line,
it keeping at SW1.8V mode.
Normally, when power is ON, POWER_DB line (L:ON)
is shut-off whichever pin No.1 or 2 of IC 707 is OFF.
NOT MOUNT
SW1.8V
& [7SH08] IC707
[Vcc]
[Vss]
3.3V1
R432 33K(J)
+3.3V1
NOT MOUNT
C480 100nF(K)
GND
[TRNC]
POWER_DB_O
Q413 DTC143ZUA T106
W420
GND
32/37WLT58
SIGNAL
MICRO I/O
SH.NO.
400


402:3A:409:1B
/OCM_RE. /OCM_WE. /ROM_CS. OCMADDR[0-20]. OCMDATA[0-7]
/RESET
[U8532]
7/9
IC700
R487 33(J)
R440 33(J)
OCMADDR[20]
OCMADDR[19]
OCMADDR[18]
OCMADDR[17]
OCMADDR[16]
OCMADDR[15]
OCMADDR[14]
OCMADDR[13]
OCMADDR[12]
OCMADDR[11]
OCMADDR[10]
OCMADDR[9]
OCMADDR[8]
OCMADDR[7]
OCMADDR[6]
OCMADDR[5]
OCMADDR[4]
OCMADDR[3]
OCMADDR[2]
OCMADDR[1]
OCMADDR[0]
RM400 [RMX4A] 33(J)
RM401 [RMX4A] 33(J)
RM402 [RMX4A] 33(J)
RM403 [RMX4A] 33(J)
RM404 [RMX4A] 33(J)
AF15 AE15 AD15 AC15 AF16 AE16 AD16 AF17 AE17 AD17 AC17 AF18 AE18 AD18 AF19 AE19 AD19 AC19 AF20 AE20 AD20 AF21
OCMADDR21 OCMADDR20 OCMADDR19 OCMADDR18 OCMADDR17 OCMADDR16 OCMADDR15 OCMADDR14 OCMADDR13 OCMADDR12 OCMADDR11 OCMADDR10 OCMADDR9 OCMADDR8 OCMADDR7 OCMADDR6 OCMADDR5 OCMADDR4 OCMADDR3 OCMADDR2 OCMADDR1 OCMADDR0
PBIAS PPWR GPIO47 GPIO46 GPIO45 GPIO44 JTAG_BS_TDO JTAG_BS_TMS OCMCS2n OCMCS1n OCMCS0n ROMCSn OCMWEn OCMREn
OCMDATA0 OCMDATA1 OCMDATA2 OCMDATA3 OCMDATA4 OCMDATA5 OCMDATA6 OCMDATA7 OCMDATA8 OCMDATA9 OCMDATA10 OCMDATA11 OCMDATA12 OCMDATA13 OCMDATA14 OCMDATA15
U26 R441 100(J) BL_ONOFF 902:4D
U25 R442 100(J) POWER_LCD 901:3B
R25 R443 100(J) D4_SW 200:4D
R24 R444 100(J) NOT MOUNT
R23 R445 100(J) HDMI_RST 302:4A
T26 R446 100(J) POWER_KEY_S 405:8A
T25 R447 100(J) GP1 200:1C
T24 R448 100(J) BS_TV_MUTE 600:4C
AC24 R488 100(J) USB 300:1D
AD26 R489 100(J) MAIN_SYNC_DET 403:8E
AD25 R449 1K(J) D4_L2 200:2E
AD24 AC26 AC25 [RMX4A] RM407 33(J) /ROM_CS /OCM_WE /OCM_RE
AE26 AE25 AE24 AF26 [RMX4A] RM405 33(J) OCMDATA[0] OCMDATA[1] OCMDATA[2] OCMDATA[3]
AF25 AF24 AC23 AD23 [RMX4A] RM406 33(J) OCMDATA[4] OCMDATA[5] OCMDATA[6] OCMDATA[7]
AE23 R4029 100(J) SW_DVI1 600:4B
AF23 R4030 100(J) AV/S_DET2 200:4F
AD22 R4031 100(J) NOT MOUNT (AV/S DET3)
AE22 R4032 1K(J)
AF22 R4033 100(J) SW_DVI2 600:4B
AC21 R4034 100(J) LED3 404:8B
AD21 R4035 100(J) LED4 404:8B
AE21 R4036 100(J) 50HZ_60HZ 903:1A
NOT MOUNT
+3.3V1
C4014 100nF(K)
GND
[7SH08] IC421
&
[Vcc]
[Vss]
W417
STBY_RST 405:3E
+3.3V_I/O
R4071 0K(J)
NOT MOUNT
R4118 10K(J)
R4119 10K(J)
R4026 1K(J)
[TRP] Q404
2SA1586-Y(TE85L.F)
R4027 1K(J)
300:4E:411:2E:901:3B
POWER_SIG_DET
R4028 47K(J)
C478 470pF(J)
5V2
BD5245G-TR
[LBD52XXA] IC424
CT VOUT
[VCC]
[GND]
NC
C4020 100nF(K) 16V
C4019 4.7nF(K)
32/37WLT58
SIGNAL
OCM MEMORY I/F
SH.NO.
401

401:1A:409:1B

/OCM_RE. /OCM_WE. /ROM_CS. OCMADDR[0-20]. OCMDATA[0-7]

MX26LV160TTC-55G

[MFLV160C]
IC404

OCMADDR[1] 25 — A0
OCMADDR[2] 24 — A1
OCMADDR[3] 23 — A2
OCMADDR[4] 22 — A3
OCMADDR[5] 21 — A4
OCMADDR[6] 20 — A5
OCMADDR[7] 19 — A6
OCMADDR[8] 18 — A7
OCMADDR[9] 8 — A8
OCMADDR[10] 7 — A9
OCMADDR[11] 6 — A10
OCMADDR[12] 5 — A11
OCMADDR[13] 4 — A12
OCMADDR[14] 3 — A13
OCMADDR[15] 2 — A14
OCMADDR[16] 1 — A15
OCMADDR[17] 48 — A16
OCMADDR[18] 17 — A17
OCMADDR[19] 16 — A18
OCMADDR[20] 9 — A19

/ROM_CS 26 — CEN
/OCM_RE 28 — OEN
/OCM_WE 11 — WEN
12 — RPN
47 — BYTEN

RY/BYN — 15
NC — 10
NC — 13
NC — 14

D0 29 — OCMDATA[0]
D1 31 — OCMDATA[1]
D2 33 — OCMDATA[2]
D3 35 — OCMDATA[3]
D4 38 — OCMDATA[4]
D5 40 — OCMDATA[5]
D6 42 — OCMDATA[6]
D7 44 — OCMDATA[7]
D8 30
D9 32
D10 34
D11 36
D12 39
D13 41
D14 43
D15/A-1 45 — OCMADDR[0]

[Vcc] 37
[GND] 27
[GND] 46

GND

400:3D:401:6A:404:7E:410:6C /RESET 1 2 W411 MOUNT

R4086 1 2 2.2K(J)

C464 NOT MOUNT

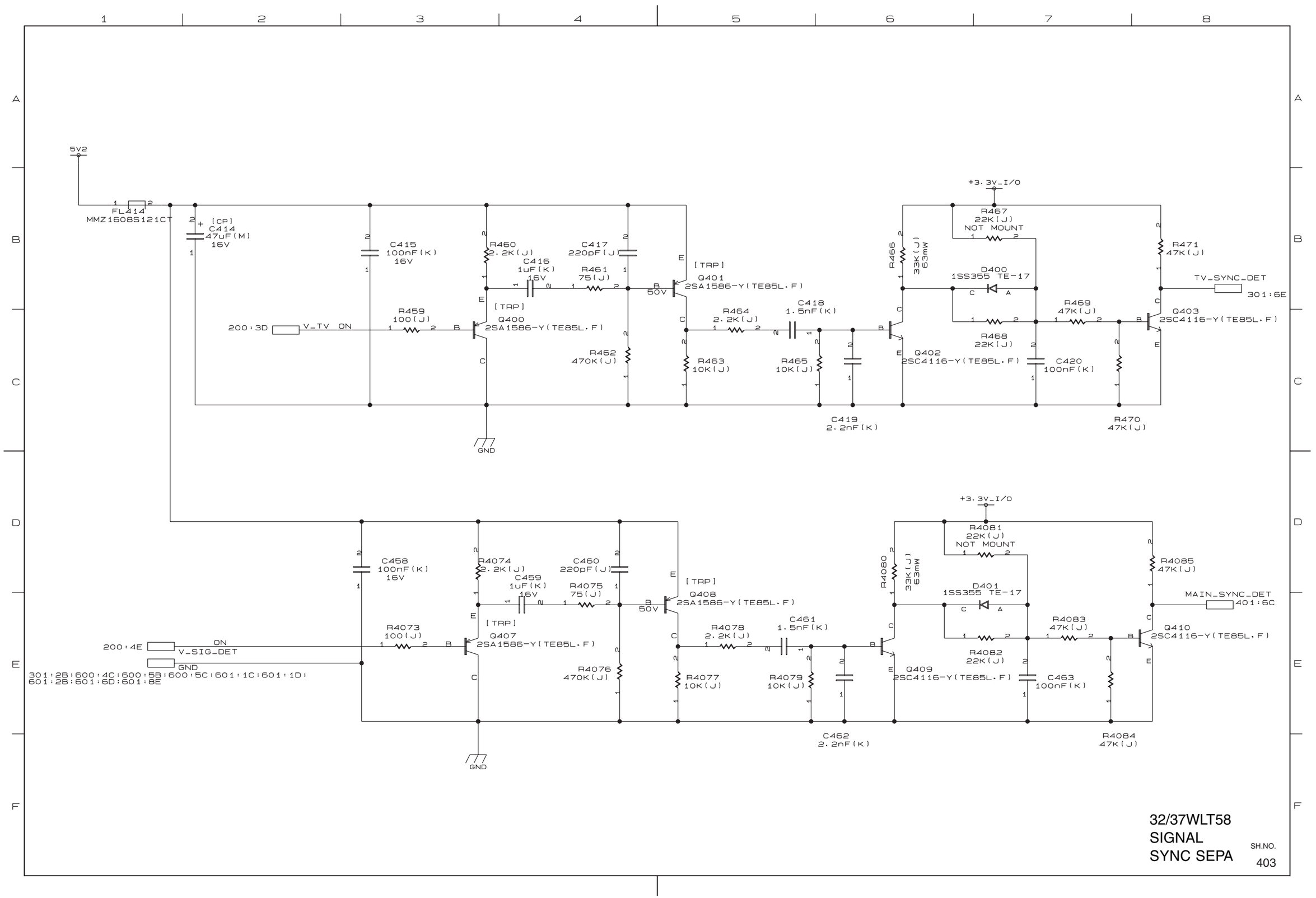
+3.3V_I/O

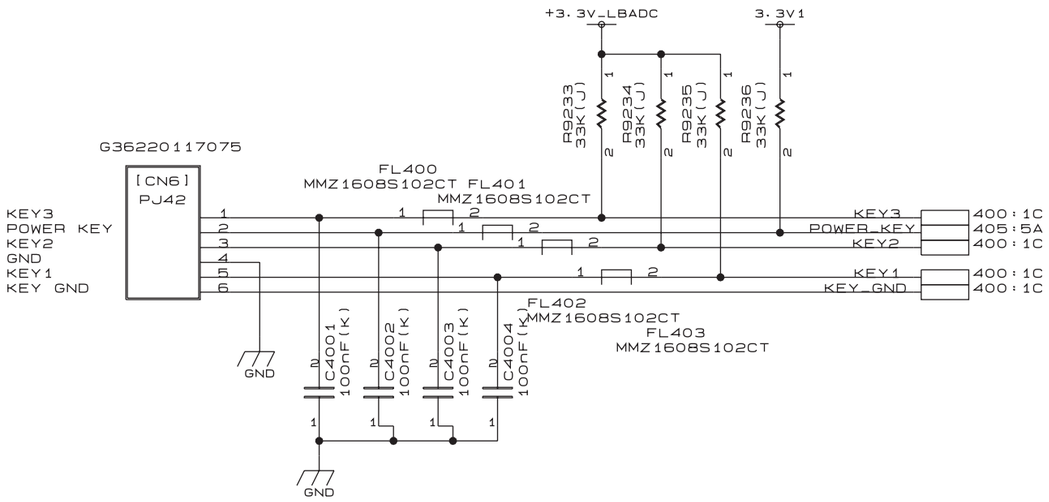
C410 10uF(K) 6.3V

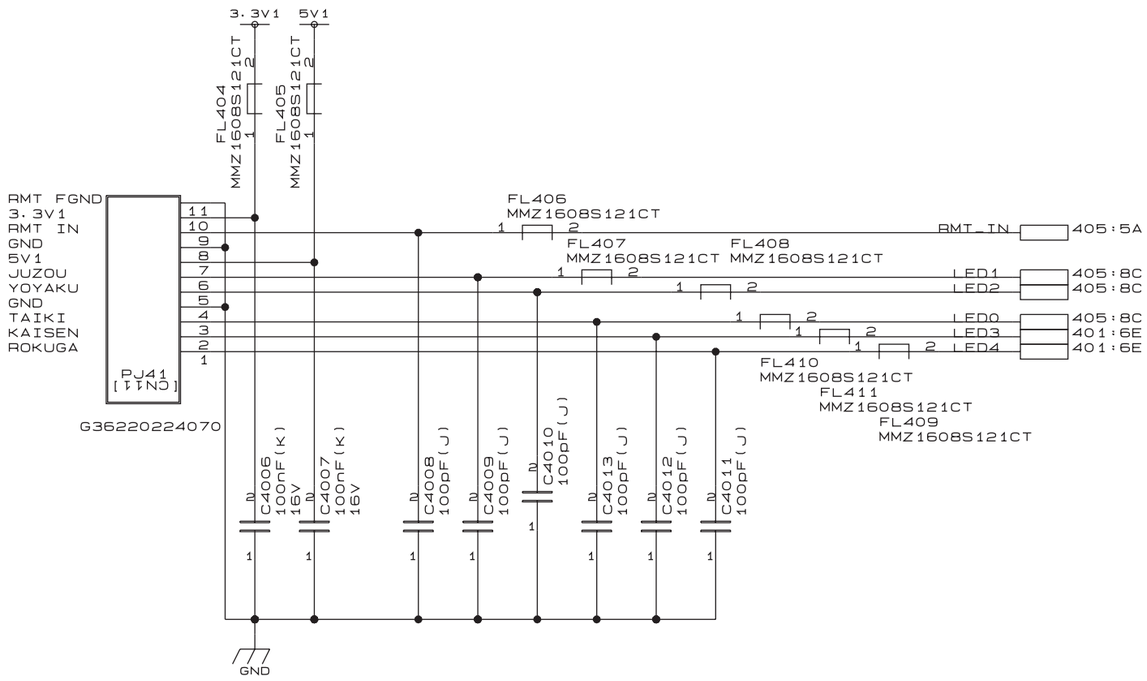
C411 100nF(K) 16V

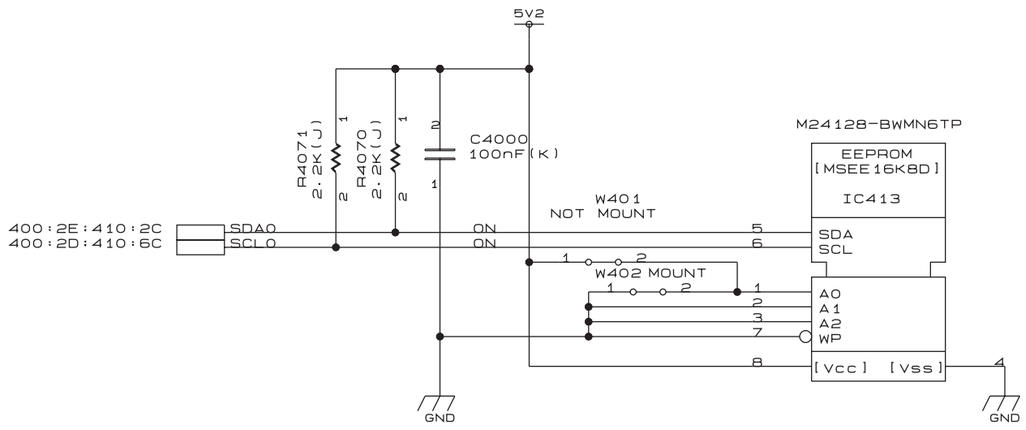
32/37WLT58
SIGNAL
FLASH MEMORY

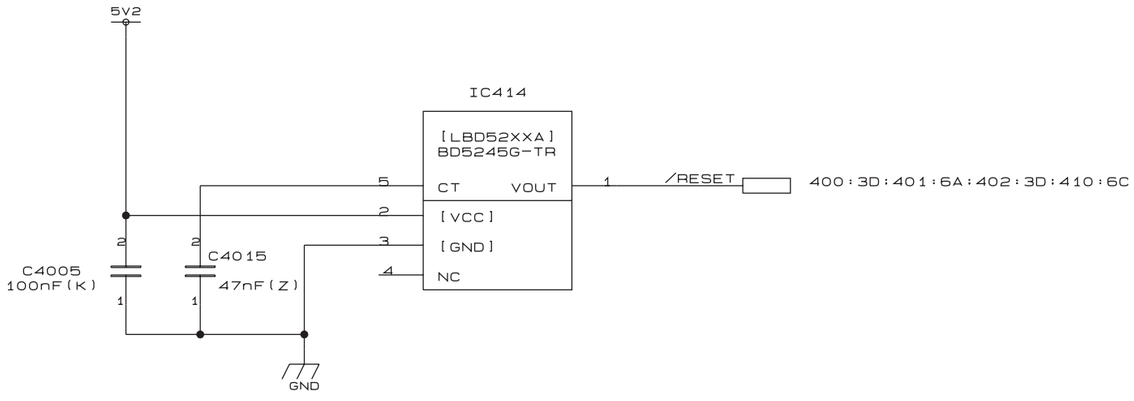
SH.NO. 402


5V2
FL414
MMZ1608S121CT
[CP]
C414
47uF(M)
16V
C415
100nF(K)
16V
R460
2.2K(J)
C416
1uF(K)
16V
C417
220pF(J)
R461
75(J)
[TRP]
Q401
2SA1586-Y(TE85L.F)
50V
R459
100(J)
200:3D
V_TV ON
[TRP]
Q400
2SA1586-Y(TE85L.F)
R462
470K(J)
R464
2.2K(J)
C418
1.5nF(K)
R463
10K(J)
R465
10K(J)
C419
2.2nF(K)
GND
+3.3V_I/O
R467
22K(J)
NOT MOUNT
R466
33K(J)
63mW
D400
1SS355 TE-17
R471
47K(J)
TV_SYNC_DET
301:6E
R469
47K(J)
Q403
2SC4116-Y(TE85L.F)
R468
22K(J)
Q402
2SC4116-Y(TE85L.F)
C420
100nF(K)
R470
47K(J)
C458
100nF(K)
16V
R4074
2.2K(J)
C459
1uF(K)
16V
C460
220pF(J)
R4075
75(J)
[TRP]
Q408
2SA1586-Y(TE85L.F)
50V
R4073
100(J)
200:4E
ON
V_SIG_DET
GND
301:2B:600:4C:600:5B:600:5C:601:1C:601:1D:
601:2B:601:6D:601:8E
[TRP]
Q407
2SA1586-Y(TE85L.F)
R4076
470K(J)
R4078
2.2K(J)
C461
1.5nF(K)
R4077
10K(J)
R4079
10K(J)
C462
2.2nF(K)
GND
+3.3V_I/O
R4081
22K(J)
NOT MOUNT
R4080
33K(J)
63mW
D401
1SS355 TE-17
R4085
47K(J)
MAIN_SYNC_DET
401:6C
R4083
47K(J)
Q410
2SC4116-Y(TE85L.F)
R4082
22K(J)
Q409
2SC4116-Y(TE85L.F)
C463
100nF(K)
R4084
47K(J)
32/37WLT58
SIGNAL
SYNC SEPA
SH.NO.
403



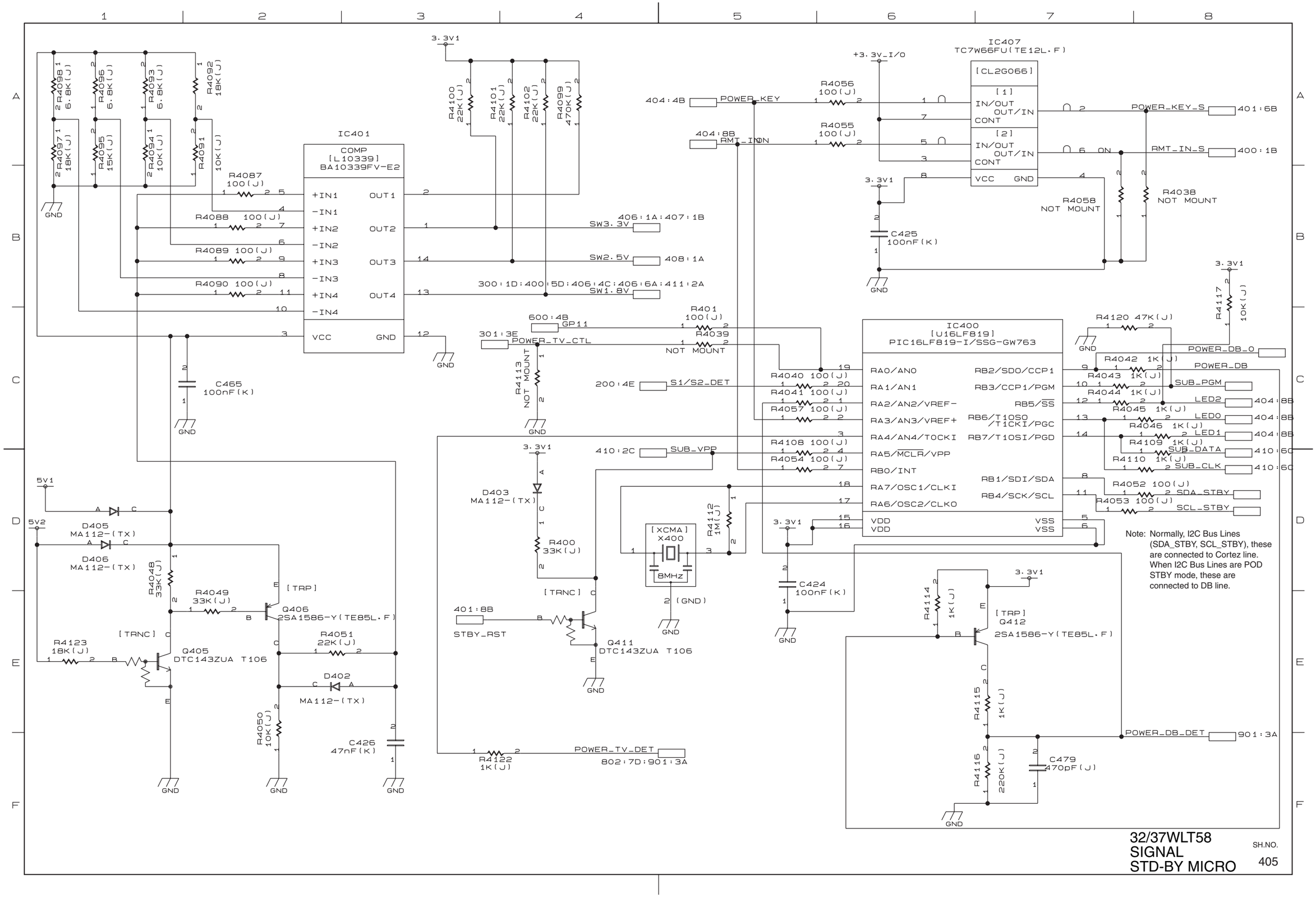






32/37WLT58
SIGNAL
E2P OTHER

SH.NO.
404


IC401
COMP
[L10339]
BA10339FV-E2
+IN1
-IN1
+IN2
-IN2
+IN3
-IN3
+IN4
-IN4
OUT1
OUT2
OUT3
OUT4
VCC
GND
IC407
TC7W66FU(TE12L.F)
[CL2G066]
[1]
[2]
IN/OUT
OUT/IN
CONT
IC400
[U16LF819]
PIC16LF819-I/SSG-GW763
RA0/ANO
RA1/AN1
RA2/AN2/VREF-
RA3/AN3/VREF+
RA4/AN4/TOCKI
RA5/MCLR/VPP
RB0/INT
RA7/OSC1/CLKI
RA6/OSC2/CLKO
RB2/SDO/CCP1
RB3/CCP1/PGM
RB5/SS
RB6/T1OSO/T1CKI/PGC
RB7/T1OSI/PGD
RB1/SDI/SDA
RB4/SCK/SCL
VDD
VSS
[XCMA]
X400
8MHz
[TRP]
[TRNC]
Q405
DTC143ZUA T106
Q406
2SA1586-Y(TE85L.F)
Q411
DTC143ZUA T106
Q412
2SA1586-Y(TE85L.F)
D402
D403
D405
D406
MA112-(TX)
3.3V1
5V1
5V2
GND
POWER_KEY
RMT_IN
POWER_KEY_S
RMT_IN_S
POWER_TV_CTL
POWER_TV_DET
S1/S2_DET
SUB_VPP
STBY_RST
SW3.3V
SW2.5V
SW1.8V
POWER_DB_O
POWER_DB
SUB_PGM
LED2
LED0
LED1
SUB_DATA
SUB_CLK
SDA_STBY
SCL_STBY
R4087 100(J)
R4088 100(J)
R4089 100(J)
R4090 100(J)
R4092 18K(J)
R4093 6.8K(J)
R4094 10K(J)
R4095 15K(J)
R4096 6.8K(J)
R4097 18K(J)
R4098 6.8K(J)
R4091 10K(J)
R4100 22K(J)
R4101 22K(J)
R4102 22K(J)
R4099 470K(J)
R4056 100(J)
R4055 100(J)
R4058 NOT MOUNT
R4038 NOT MOUNT
R401 100(J)
R4039 NOT MOUNT
R4113 NOT MOUNT
R4040 100(J)
R4041 100(J)
R4057 100(J)
R4108 100(J)
R4054 100(J)
R4112 1M(J)
R400 33K(J)
R4122 1K(J)
R4120 47K(J)
R4117 10K(J)
R4042 1K(J)
R4043 1K(J)
R4044 1K(J)
R4045 1K(J)
R4046 1K(J)
R4109 1K(J)
R4110 1K(J)
R4052 100(J)
R4053 100(J)
R4114 1K(J)
R4115 1K(J)
R4116 220K(J)
R4048 33K(J)
R4049 33K(J)
R4050 10K(J)
R4051 22K(J)
R4123 18K(J)
C465 100nF(K)
C425 100nF(K)
C424 100nF(K)
C426 47nF(K)
C479 470pF(J)
Note: Normally, I2C Bus Lines (SDA_STBY, SCL_STBY), these are connected to Cortez line. When I2C Bus Lines are POD STBY mode, these are connected to DB line.
32/37WLT58
SIGNAL
STD-BY MICRO
SH.NO.
405

405:4B:407:1B

SW3.3V
R4059
100(J)
C471
47pF(J)
GND
IC402
PQ070XH02ZPH
UREG
[LPQ070XH]
3.3V
VC
VADJ
VIN
VO
[GND]
5V2
C428
1uF(K)
GND
+3.3V
[CP]
C427
47uF(M)
GND
FL423
MPZ2012S221AT
+3.3V_I/O
C451
100nF(K)
16V
GND
R4061
1.5K(F)
R4062
150(F)
R4060
1K(F)
GND

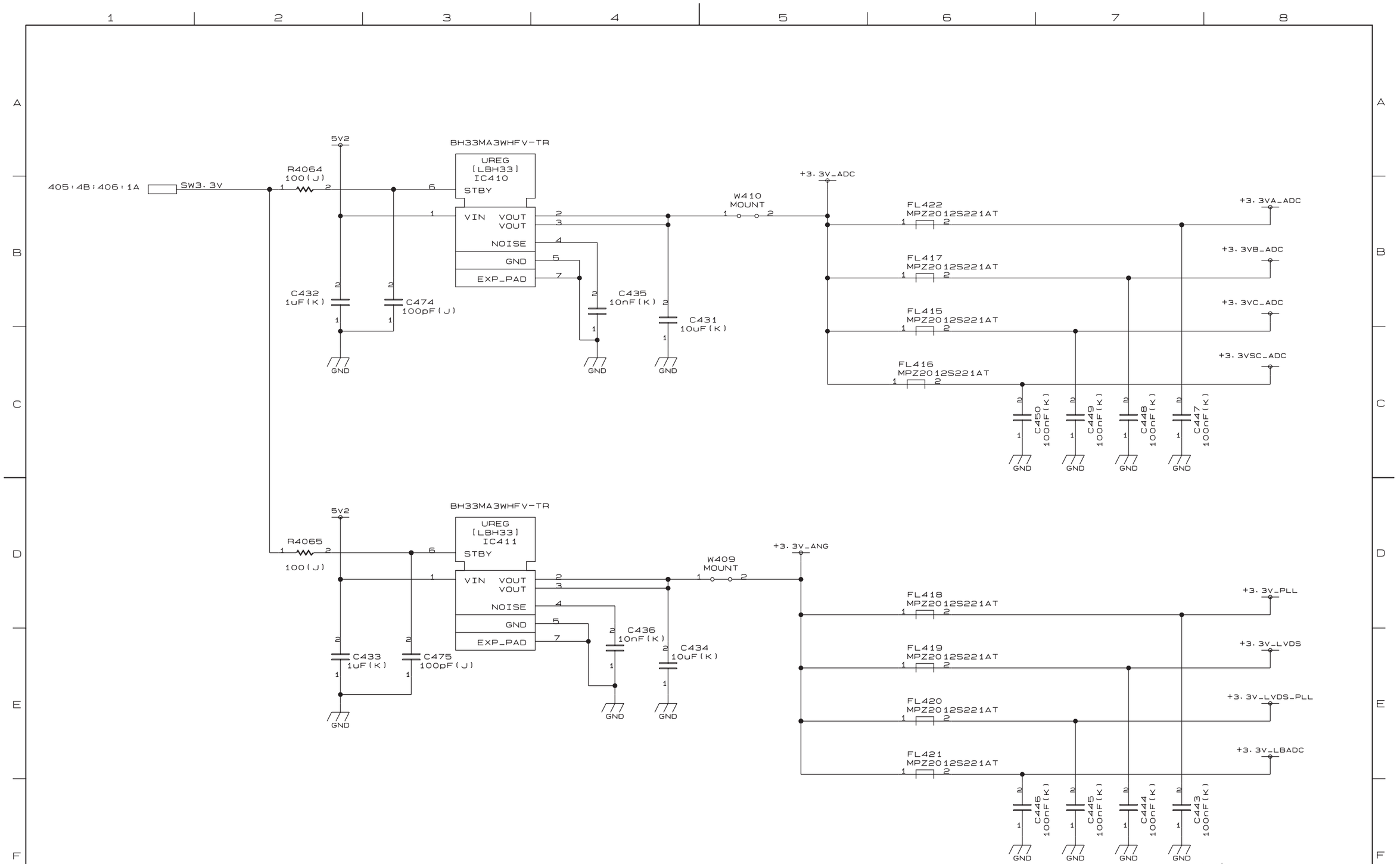
300:1D:400:5D:405:4B:6A:411:2A
SW1.8V
R4063
100(J)
C473
100pF(J)
GND
PQ018EH02ZPH
UREG
[LPQXXXEH]
IC403
1.8V
VC
NC
VIN
VO
[GND]
+3.3V
C429
1uF(K)
GND
[CP]
C453
47uF(M)
GND

300:1D:400:5D:405:4B:4C:411:2A
5V2
SW1.8V
R4072
100(J)
C452
100nF(K)
C472
100pF(J)
GND
BH18LB1WG-TR
UREG
[LBHXX]
IC412
STBY
NC
VIN
VOUT
[GND]
C454
1uF(K)
GND
+1.8V_ADC
FL427
MPZ1608S221AT

NOT MOUNT
FL428
MPZ1608S221AT
+1.8V_DLL
FL425
MPZ1608S221AT
+1.8V_PLL
FL426
MPZ1608S221AT
+1.8V_CORE
FL424
MPZ1608S221AT
C430
100nF(K)
C456
100nF(K)
C455
100nF(K)
GND

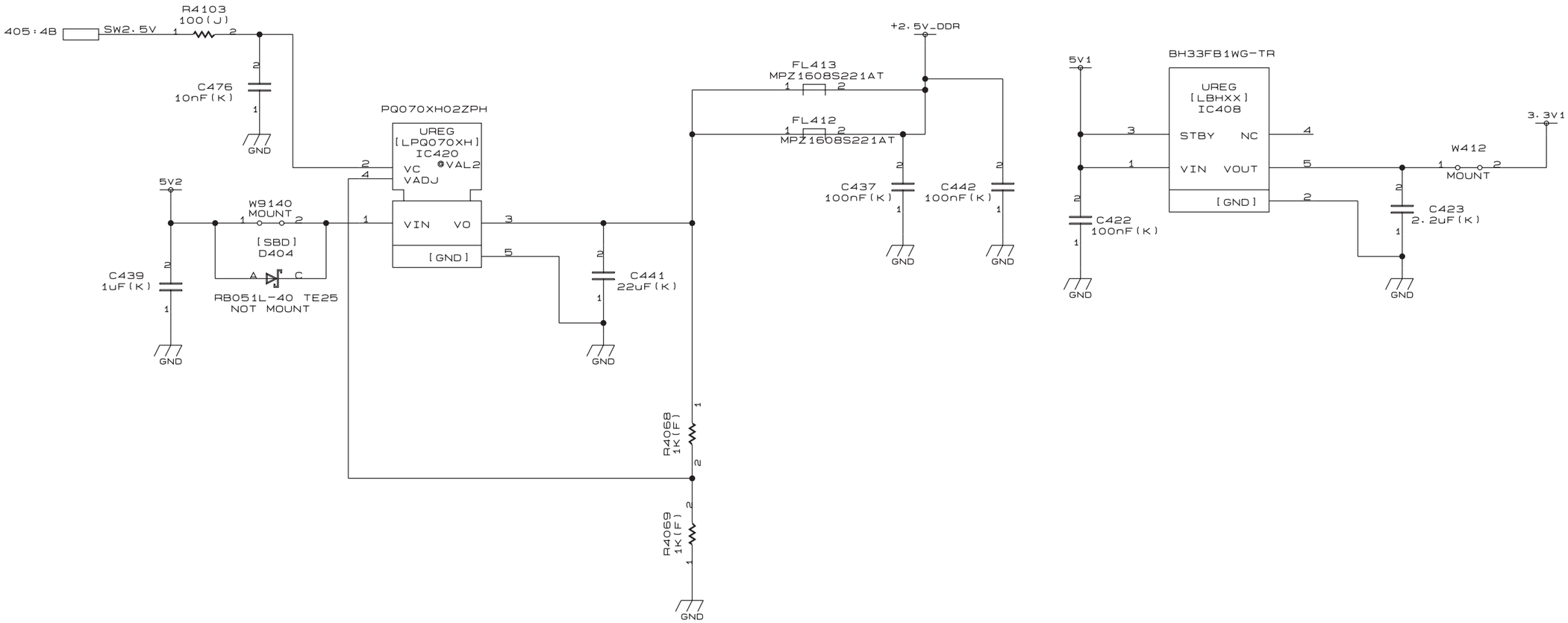
32/37WLT58
SIGNAL
CORTEZ REG 1

SH.NO.
406



32/37WLT58
SIGNAL
CORTEZ REG 2

SH.NO.
407



32/37WLT58
SIGNAL
CORTEZ REG 3

SH.NO.
408

401:1A:402:3A

OCMADDR[0-19]

+3.3V_I/O

NOT MOUNT
R4000 10K(J)
OCMADDR[0]

10K(J)
OCMADDR[1]
OCMADDR[2]
OCMADDR[3]
OCMADDR[4]
RM408
[RMX4A]

R4005 10K(J)
OCMADDR[5]

R4006 10K(J)
OCMADDR[6]

R4007 NOT MOUNT
OCMADDR[7]

R4008 NOT MOUNT
OCMADDR[8]

R4009 NOT MOUNT
OCMADDR[9]

R4010 10K(J)
OCMADDR[10]

R4011 10K(J)
OCMADDR[11]

+3.3V_I/O

R4012 10K(J)
OCMADDR[12]

R4013 10K(J)
OCMADDR[13]

R4014 NOT MOUNT
OCMADDR[14]

R4015 NOT MOUNT
OCMADDR[15]

R4016 NOT MOUNT
OCMADDR[16]

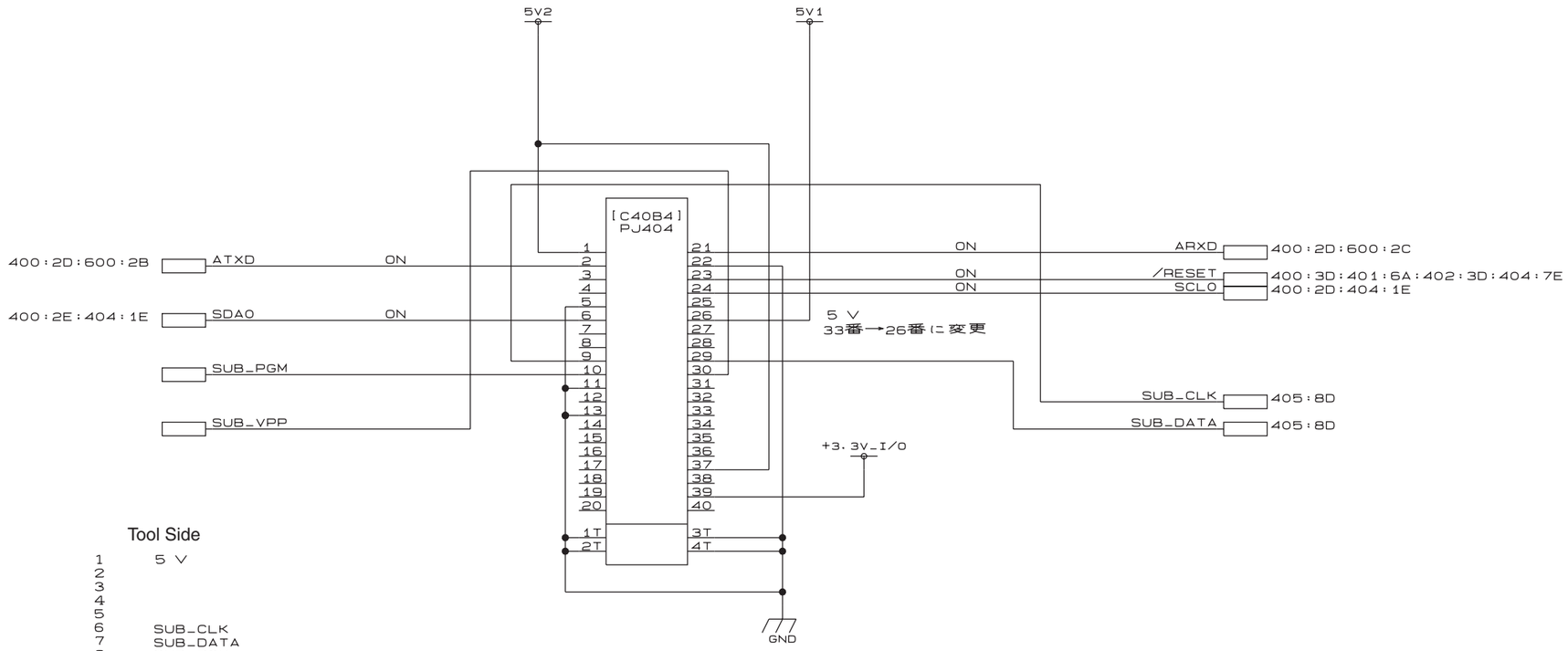
R4017 10K(J)
OCMADDR[17]

R4018 NOT MOUNT
OCMADDR[18]

R4019 1K(J)
OCMADDR[19]

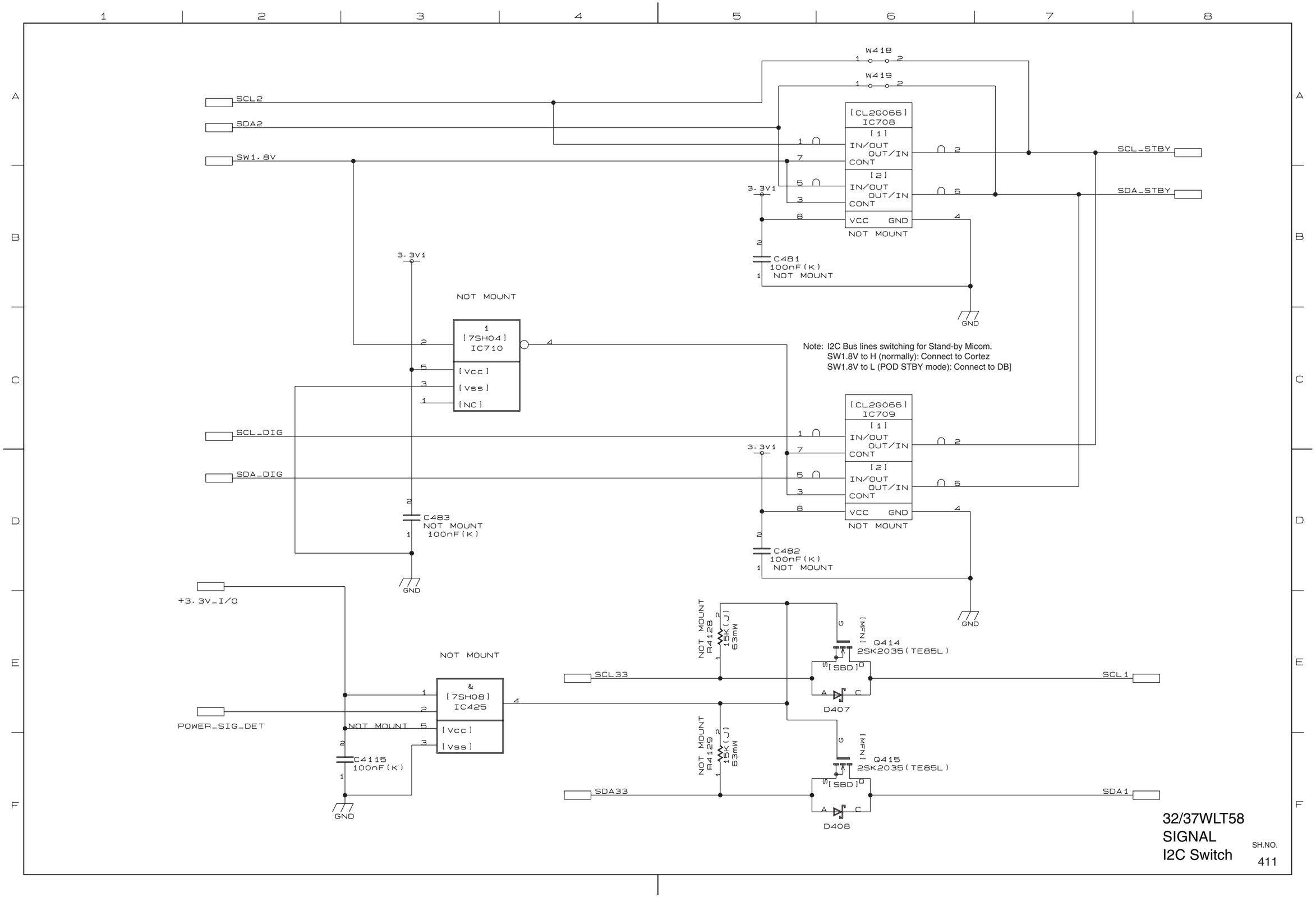
32/37WLT58
SIGNAL
BOOT CONFIG

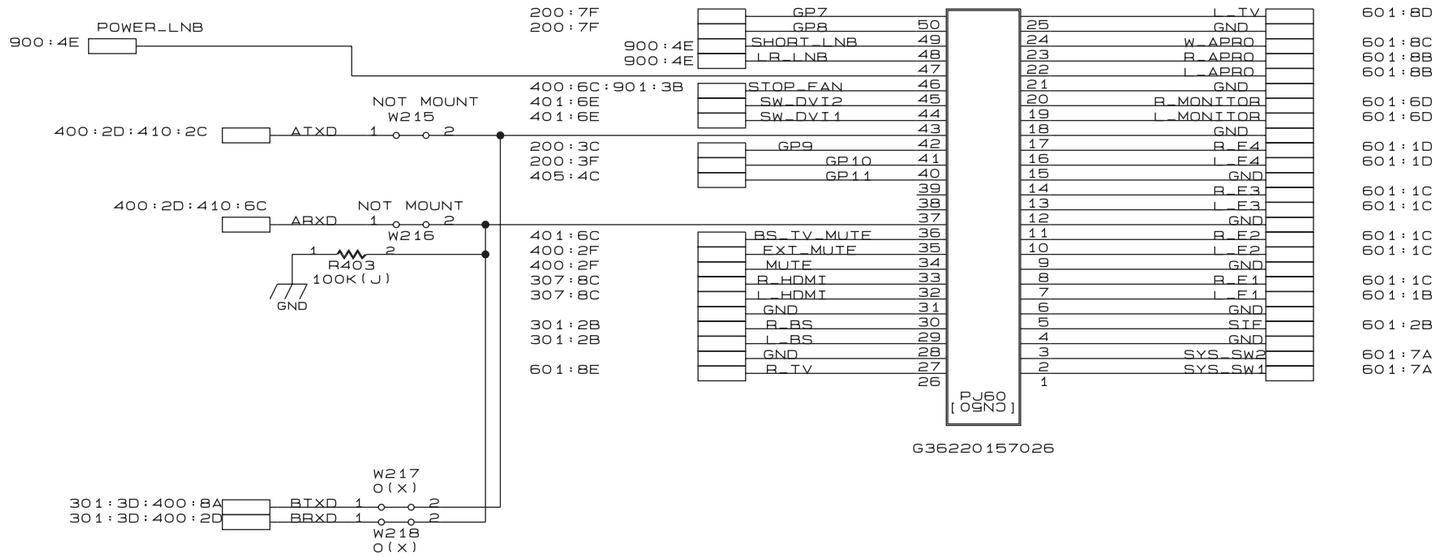
SH.NO.
409



32/37WLT58
SIGNAL
SERVICE CONNECTOR

SH.NO.
410

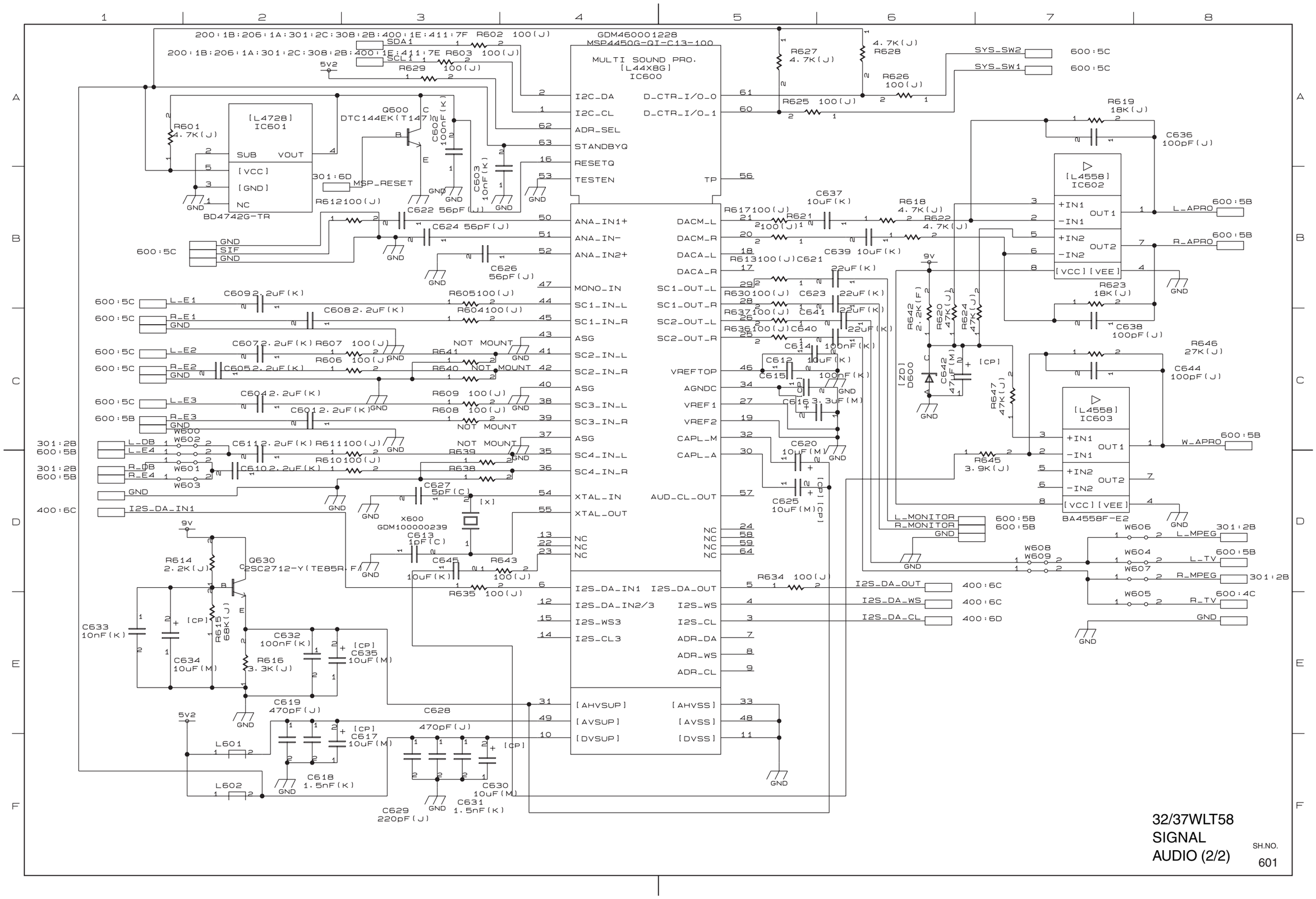

W418
W419
SCL2
SDA2
SW1.8V
[CL2G066]
IC708
[1]
IN/OUT
OUT/IN
CONT
[2]
IN/OUT
OUT/IN
CONT
VCC GND
NOT MOUNT
3.3V1
C481
100nF(K)
NOT MOUNT
SCL_STBY
SDA_STBY
GND
3.3V1
NOT MOUNT
[7SH04]
IC710
[Vcc]
[Vss]
[NC]
Note: I2C Bus lines switching for Stand-by Micom.
SW1.8V to H (normally): Connect to Cortez
SW1.8V to L (POD STBY mode): Connect to DB]
SCL_DIG
SDA_DIG
[CL2G066]
IC709
C483
NOT MOUNT
100nF(K)
C482
100nF(K)
NOT MOUNT
GND
+3.3V_I/O
NOT MOUNT
&
[7SH08]
IC425
POWER_SIG_DET
NOT MOUNT
C4115
100nF(K)
NOT MOUNT R4128
15K(J)
63mW
NOT MOUNT R4129
15K(J)
63mW
Q414
2SK2035(TE85L)
[NMF]
[SBD]
D407
Q415
2SK2035(TE85L)
[NMF]
[SBD]
D408
SCL33
SDA33
SCL1
SDA1
32/37WLT58
SIGNAL
I2C Switch
SH.NO.
411

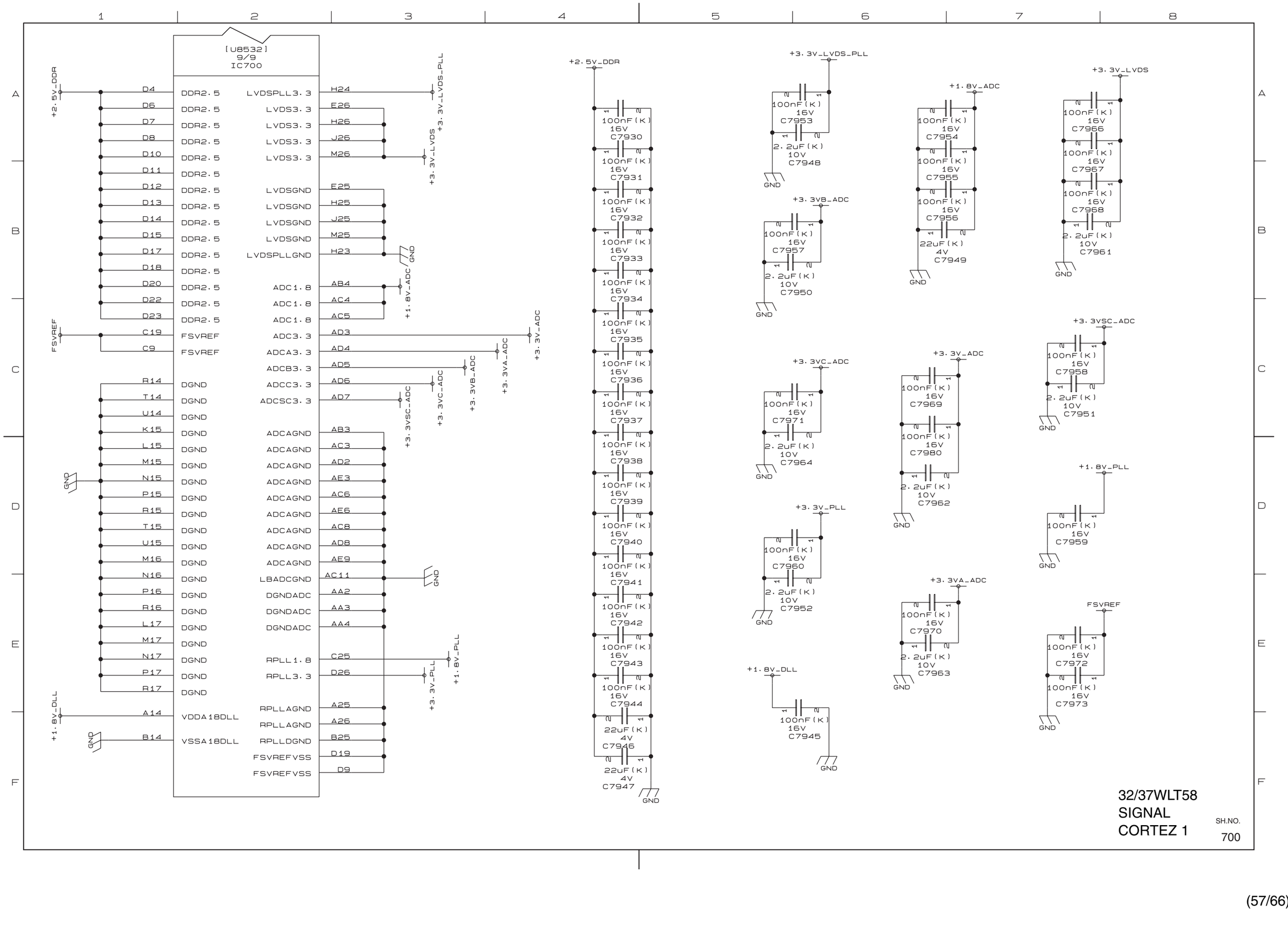


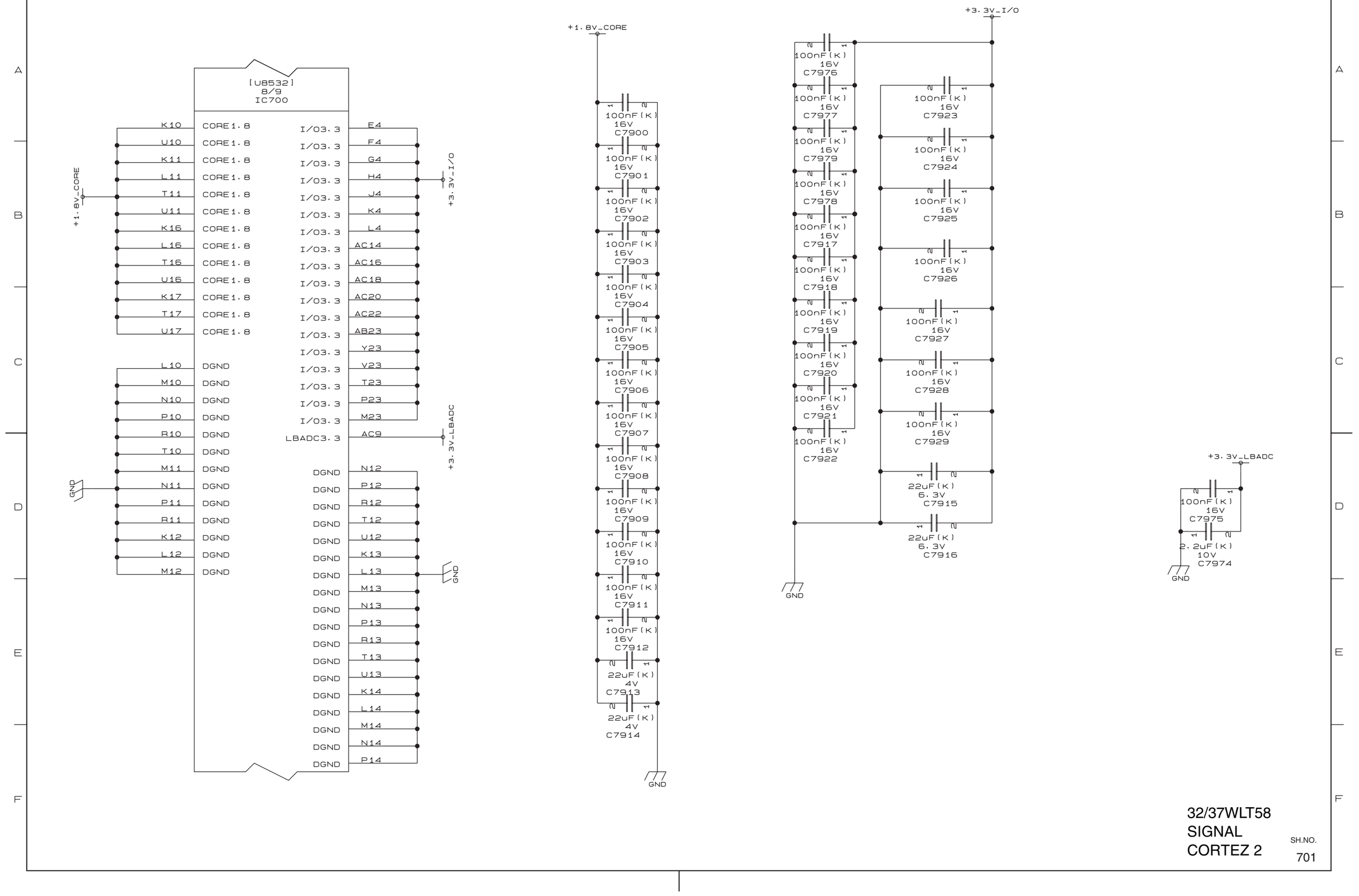
G36220157026

32/37WLT58
SIGNAL
AUDIO (1/2)

SH.NO.
600


GDM460001228
MSP4450G-QI-C13-100
MULTI SOUND PRO.
[L44X8G]
IC600
I2C_DA
I2C_CL
ADR_SEL
STANDBYQ
RESETQ
TESTEN
TP
D_CTR_I/O_0
D_CTR_I/O_1
ANA_IN1+
ANA_IN-
ANA_IN2+
MONO_IN
SC1_IN_L
SC1_IN_R
ASG
SC2_IN_L
SC2_IN_R
ASG
SC3_IN_L
SC3_IN_R
ASG
SC4_IN_L
SC4_IN_R
XTAL_IN
XTAL_OUT
NC
NC
NC
I2S_DA_IN1
I2S_DA_IN2/3
I2S_WS3
I2S_CL3
[AHVSUP]
[AVSUP]
[DVSUP]
DACM_L
DACM_R
DACA_L
DACA_R
SC1_OUT_L
SC1_OUT_R
SC2_OUT_L
SC2_OUT_R
VREFTOP
AGNDC
VREF1
VREF2
CAPL_M
CAPL_A
AUD_CL_OUT
NC
NC
NC
NC
I2S_DA_OUT
I2S_WS
I2S_CL
ADR_DA
ADR_WS
ADR_CL
[AHVSS]
[AVSS]
[DVSS]
[L4728]
IC601
SUB
VOUT
[VCC]
[GND]
NC
BD4742G-TR
[L4558]
IC602
[L4558]
IC603
+IN1
-IN1
+IN2
-IN2
OUT1
OUT2
[VCC]
[VEE]
BA4558F-E2
Q600
DTC144EK(T147)
Q630
2SC2712-Y(TE85R,F)
X600
GDM100000239
[ZD]
D600
MSP_RESET
I2S_DA_IN1
SYS_SW2
SYS_SW1
L_APRO
R_APRO
W_APRO
L_MPEG
R_MPEG
L_TV
R_TV
L_MONITOR
R_MONITOR
I2S_DA_OUT
I2S_WS
I2S_CL
L_E1
R_E1
L_E2
R_E2
L_E3
R_E3
L_DB
L_E4
R_DB
R_E4
W600
W601
W602
W603
W604
W605
W606
W607
W608
W609
GND
SIF
5V2
9V
[CP]
[x]
NOT MOUNT
R601 4.7K(J)
R602 100(J)
R603 100(J)
R604100(J)
R605100(J)
R606 100(J)
R607 100(J)
R608 100(J)
R609 100(J)
R610100(J)
R611100(J)
R612100(J)
R613100(J)
R614 2.2K(J)
R615 68K(J)
R616 3.3K(J)
R617100(J)
R618 4.7K(J)
R619 18K(J)
R620 47K(J)
R621 100(J)
R622 4.7K(J)
R623 18K(J)
R624 47K(J)
R625 100(J)
R626 100(J)
R627 4.7K(J)
R628 4.7K(J)
R629 100(J)
R630100(J)
R634 100(J)
R635 100(J)
R636100(J)
R637100(J)
R639
R640
R641
R643
R645 3.9K(J)
R646 27K(J)
R647 47K(J)
C600 100nF(K)
C602 100nF(K)
C603 10nF(K)
C609 2.2uF(K)
C607 2.2uF(K)
C606 2.2uF(K)
C605 2.2uF(K)
C604 2.2uF(K)
C612 2.2uF(K)
C611 2.2uF(K)
C610 2.2uF(K)
C613 10pF(C)
C614 100nF(K)
C615 10pF(C)
C616 3.3uF(M)
C617 10uF(M)
C618 1.5nF(K)
C619 470pF(J)
C620 10uF(M)
C621
C622 56pF(J)
C623 22uF(K)
C624 56pF(J)
C625 10uF(M)
C626 56pF(J)
C627 5pF(C)
C628
C629 220pF(J)
C630 10uF(M)
C631 1.5nF(K)
C632 100nF(K)
C633 10nF(K)
C634 10uF(M)
C635 10uF(M)
C636 100pF(J)
C637 10uF(K)
C638 100pF(J)
C639 10uF(K)
C640 22uF(K)
C641 22uF(K)
C642 2.2K(F)
C643 10uF(K)
C644 100pF(J)
C645
600:5C
600:5B
600:4C
301:2B
400:6C
400:6D
9V
32/37WLT58
SIGNAL
AUDIO (2/2)
SH.NO.
601


[U8532]
9/9
IC700
+2.5V_DDR
D4
D6
D7
D8
D10
D11
D12
D13
D14
D15
D17
D18
D20
D22
D23
FSVREF
C19
C9
R14
T14
U14
K15
L15
M15
N15
P15
R15
T15
U15
M16
N16
P16
R16
L17
M17
N17
P17
R17
A14
B14
+1.8V_DLL
GND
DDR2.5
FSVREF
DGND
VDDA18DLL
VSSA18DLL
LVDSPLL3.3
LVDS3.3
LVDSGND
LVDSPLLGND
ADC1.8
ADC3.3
ADCA3.3
ADCB3.3
ADCC3.3
ADCSC3.3
ADCAGND
LBADCGND
DGNDADC
RPLL1.8
RPLL3.3
RPLLAGND
RPLLDGND
FSVREFVSS
H24
E26
H26
J26
M26
E25
H25
J25
M25
H23
AB4
AC4
AC5
AD3
AD4
AD5
AD6
AD7
AB3
AC3
AD2
AE3
AC6
AE6
AC8
AD8
AE9
AC11
AA2
AA3
AA4
C25
D26
A25
A26
B25
D19
D9
+3.3V_LVDS_PLL
+3.3V_LVDS
+1.8V_ADC
+3.3V_ADC
+3.3VA_ADC
+3.3VB_ADC
+3.3VC_ADC
+3.3VSC_ADC
+1.8V_PLL
+3.3V_PLL
100nF(K)
16V
C7930
C7931
C7932
C7933
C7934
C7935
C7936
C7937
C7938
C7939
C7940
C7941
C7942
C7943
C7944
22uF(K)
4V
C7946
C7947
2.2uF(K)
10V
C7948
C7949
C7950
C7951
C7952
C7953
C7954
C7955
C7956
C7957
C7958
C7959
C7960
C7961
C7962
C7963
C7964
C7966
C7967
C7968
C7969
C7970
C7971
C7972
C7973
C7980
22uF(K)
4V
C7945
32/37WLT58
SIGNAL
CORTEZ 1
SH.NO.
700


[U8532]
8/9
IC700
K10 CORE1.8
U10 CORE1.8
K11 CORE1.8
L11 CORE1.8
T11 CORE1.8
U11 CORE1.8
K16 CORE1.8
L16 CORE1.8
T16 CORE1.8
U16 CORE1.8
K17 CORE1.8
T17 CORE1.8
U17 CORE1.8
+1.8V_CORE
L10 DGND
M10 DGND
N10 DGND
P10 DGND
R10 DGND
T10 DGND
M11 DGND
N11 DGND
P11 DGND
R11 DGND
K12 DGND
L12 DGND
M12 DGND
GND
I/O3.3 E4
I/O3.3 F4
I/O3.3 G4
I/O3.3 H4
I/O3.3 J4
I/O3.3 K4
I/O3.3 L4
I/O3.3 AC14
I/O3.3 AC16
I/O3.3 AC18
I/O3.3 AC20
I/O3.3 AC22
I/O3.3 AB23
I/O3.3 Y23
I/O3.3 V23
I/O3.3 T23
I/O3.3 P23
I/O3.3 M23
LBADC3.3 AC9
+3.3V_I/O
+3.3V_LBADC
DGND N12
DGND P12
DGND R12
DGND T12
DGND U12
DGND K13
DGND L13
DGND M13
DGND N13
DGND P13
DGND R13
DGND T13
DGND U13
DGND K14
DGND L14
DGND M14
DGND N14
DGND P14
GND
+1.8V_CORE
100nF(K) 16V C7900
100nF(K) 16V C7901
100nF(K) 16V C7902
100nF(K) 16V C7903
100nF(K) 16V C7904
100nF(K) 16V C7905
100nF(K) 16V C7906
100nF(K) 16V C7907
100nF(K) 16V C7908
100nF(K) 16V C7909
100nF(K) 16V C7910
100nF(K) 16V C7911
100nF(K) 16V C7912
22uF(K) 4V C7913
22uF(K) 4V C7914
GND
+3.3V_I/O
100nF(K) 16V C7976
100nF(K) 16V C7977
100nF(K) 16V C7979
100nF(K) 16V C7978
100nF(K) 16V C7917
100nF(K) 16V C7918
100nF(K) 16V C7919
100nF(K) 16V C7920
100nF(K) 16V C7921
100nF(K) 16V C7922
100nF(K) 16V C7923
100nF(K) 16V C7924
100nF(K) 16V C7925
100nF(K) 16V C7926
100nF(K) 16V C7927
100nF(K) 16V C7928
100nF(K) 16V C7929
22uF(K) 6.3V C7915
22uF(K) 6.3V C7916
GND
+3.3V_LBADC
100nF(K) 16V C7975
2.2uF(K) 10V C7974
GND
32/37WLT58
SIGNAL
CORTEZ 2
SH.NO.
701

/FSCAS. /FSCS[0-1]. /FSRAS. /FSWE. FSADDR[0-12]. FSBKSEL[0-1]. FSCKE. FSCLK+. FSCLK-. FSDATA[0-31]. FSDQM[0-3]. FSDQS[0-3]

[U8532]
5/9
IC700

B4	FSDATA0	FSBKSEL1	C20
A4	FSDATA1	FSBKSEL0	C21
B5	FSDATA2	FSCKE	C4
A5	FSDATA3	FSRAS	C24
B7	FSDATA4	FSCAS	D24
A7	FSDATA5	FSWE	C23
B8	FSDATA6		
A8	FSDATA7	FSDQM3	B22
B9	FSDATA8	FSDQM2	B17
A9	FSDATA9	FSDQM1	A11
B10	FSDATA10	FSDQM0	A6
A10	FSDATA11	FSDQS3	A22
B12	FSDATA12	FSDQS2	A17
A12	FSDATA13	FSDQS1	B11
B13	FSDATA14	FSDQS0	B6
A13	FSDATA15	FSCS1	C22
B15	FSDATA16	FSCS0	D21
A15	FSDATA17	FSCLKn	C5
B16	FSDATA18	FSCLKp	D5
A16	FSDATA19		
B18	FSDATA20	FSADDR12	C11
A18	FSDATA21	FSADDR11	C14
B19	FSDATA22	FSADDR10	D16
A19	FSDATA23	FSADDR9	C12
B20	FSDATA24	FSADDR8	C6
A20	FSDATA25	FSADDR7	C7
B21	FSDATA26	FSADDR6	C8
A21	FSDATA27	FSADDR5	C10
B23	FSDATA28	FSADDR4	C13
A23	FSDATA29	FSADDR3	C15
B24	FSDATA30	FSADDR2	C16
A24	FSDATA31	FSADDR1	C17
		FSADDR0	C18

RM700 [RMX4A] 33(J): FSDATA[15] FSDATA[14] FSDATA[13] FSDATA[12]
RM701 [RMX4A] 33(J): FSDATA[11] FSDATA[10] FSDATA[9] FSDATA[8]
RM702 [RMX4A] 33(J): FSDATA[7] FSDATA[6] FSDATA[5] FSDATA[4]
RM703 [RMX4A] 33(J): FSDATA[3] FSDATA[2] FSDATA[1] FSDATA[0]
RM704 [RMX4A] 33(J): FSDATA[31] FSDATA[30] FSDATA[29] FSDATA[28]
RM705 [RMX4A] 33(J): FSDATA[27] FSDATA[26] FSDATA[25] FSDATA[24]
RM706 [RMX4A] 33(J): FSDATA[23] FSDATA[22] FSDATA[21] FSDATA[20]
RM737 [RMX4A] 33(J): FSDATA[19] FSDATA[18] FSDATA[17] FSDATA[16]

R736 33(J): FSBKSEL[1]
R735 33(J): FSBKSEL[0]
R734 33(J): FSCKE
RM707 [RMx4A] 33(J): /FSRAS /FSCAS /FSWE
R740 33(J): FSDQM[2]
R739 33(J): FSDQM[3]
R738 33(J): FSDQM[0]
R737 33(J): FSDQM[1]
R744 33(J): FSDQS[2]
R743 33(J): FSDQS[3]
R742 33(J): FSDQS[0]
R741 33(J): FSDQS[1]
R716 33(J): /FSCS[1]
R717 33(J): /FSCS[0]
R718 33(J): FSCLK-
R719 33(J): FSCLK+
RM708 [RMx4A] 33(J): FSADDR[11] FSADDR[4] FSADDR[9] FSADDR[12]
R707 33(J): FSADDR[10]
RM709 [RMX4A] 33(J): FSADDR[8] FSADDR[7] FSADDR[6] FSADDR[5]
RM710 [RMX4A] 33(J): FSADDR[3] FSADDR[2] FSADDR[1] FSADDR[0]

32/37WLT58
SIGNAL
DDR I/F

SH.NO.
702

/FSCAS. /FSCS[0]. /FSRAS. /FSWE. FSADDR[0-12]. FSBKSEL[0-1]. FSCKE. FSCLK+. FSCLK-. FSDQM[0-1]. FSDQS[0-1]

HY5DU281622ETP-5 [MDSD8M16] IC701

/FSCAS. /FSCS[0]. /FSRAS. /FSWE
FSADDR[0-12]. FSBKSEL[0-1]. FSCKE
FSCLK+. FSCLK-. FSDATA[0-15]
FSDQM[2-3]. FSDQS[2-3]

HY5DU281622ETP-5 [MDSD8M16] IC702

FSDATA[16-31]

FSADDR[0] 29 A0
FSADDR[1] 30 A1
FSADDR[2] 31 A2
FSADDR[3] 32 A3
FSADDR[4] 35 A4
FSADDR[5] 36 A5
FSADDR[6] 37 A6
FSADDR[7] 38 A7
FSADDR[8] 39 A8
FSADDR[9] 40 A9
FSADDR[10] 28 A10/AP
FSADDR[11] 41 A11

FSBKSEL[1] 27 BS1
FSBKSEL[0] 26 BS0
FSCLK- 46 CLK
FSCLK+ 45 CLK
FSCKE 44 CKE

R732 220(J) NOT MOUNT
R733 220(J) NOT MOUNT

/FSCS[0] 24 CS
/FSRAS 23 RAS
/FSCAS 22 CAS
/FSWE 21 WE

R720 33(J) FSDQM[0] 20 LDM
R721 33(J) FSDQM[1] 47 UDM
R722 33(J) FSDQS[0] 16 LDQS
R723 33(J) FSDQS[1] 51 UDQS
R724 33(J) FSDQM[2] 20 LDM
R725 33(J) FSDQM[3] 47 UDM
R726 33(J) FSDQS[2] 16 LDQS
R727 33(J) FSDQS[3] 51 UDQS

14 NC
17 NC
19 NC
25 NC
FSADDR[12] 42 NC
43 NC
50 NC
53 NC

DQ0 DQ1 DQ2 DQ3 DQ4 DQ5 DQ6 DQ7 DQ8 DQ9 DQ10 DQ11 DQ12 DQ13 DQ14 DQ15

[RMX4A] RM711 33(J): FSDATA[0] FSDATA[1] FSDATA[2] FSDATA[3]
[RMX4A] RM712 33(J): FSDATA[4] FSDATA[5] FSDATA[6] FSDATA[7]
[RMX4A] RM713 33(J): FSDATA[8] FSDATA[9] FSDATA[10] FSDATA[11]
[RMX4A] RM714 33(J): FSDATA[12] FSDATA[13] FSDATA[14] FSDATA[15]
[RMX4A] RM715 33(J): FSDATA[16] FSDATA[17] FSDATA[18] FSDATA[19]
[RMX4A] RM716 33(J): FSDATA[20] FSDATA[21] FSDATA[22] FSDATA[23]
[RMX4A] RM717 33(J): FSDATA[24] FSDATA[25] FSDATA[26] FSDATA[27]
[RMX4A] RM718 33(J): FSDATA[28] FSDATA[29] FSDATA[30] FSDATA[31]

+2.5V_DDR
FSVREF

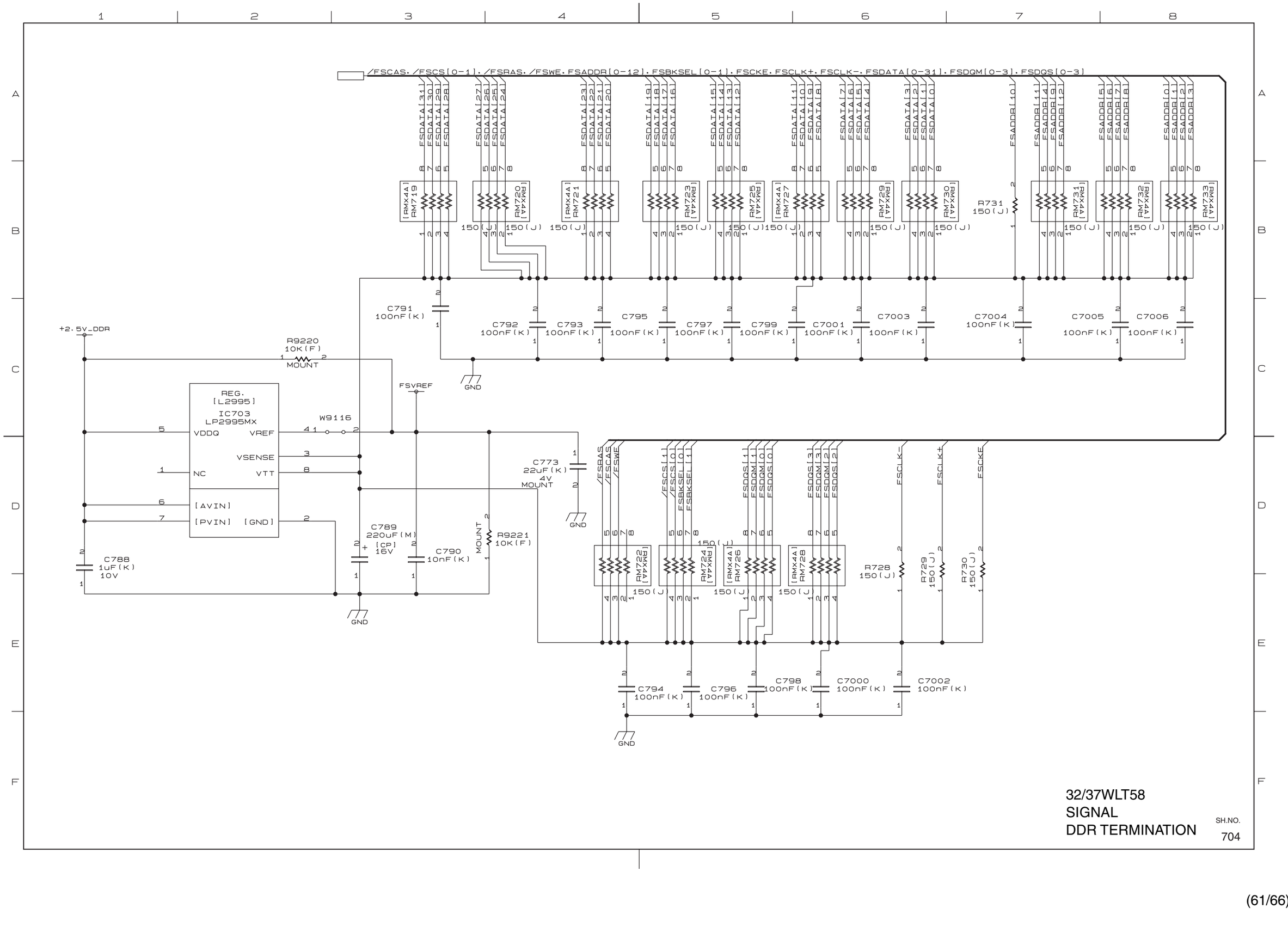
C774 100nF(K)
C775 100nF(K)
C776 100nF(K)
C777 100nF(K)
C778 100nF(K)
C779 100nF(K)
C780 100nF(K)
C781 100nF(K)
C782 100nF(K)
C783 100nF(K)
C784 100nF(K)
C785 100nF(K)
C786 100nF(K)
C787 100nF(K)

[VDDQ] [VSSQ] 3 6
[VDDQ] [VSSQ] 9 12
[VDDQ] [VSSQ] 15 52
[VDDQ] [VSSQ] 55 58
[VDDQ] [VSSQ] 61 64
[VDD] [VSS] 1 34
[VDD] [VSS] 18 48
[VDD] [VSS] 33 66
[VREF] 49

GND

32/37WLT58
SIGNAL
DDR SDRAM

SH.NO.
703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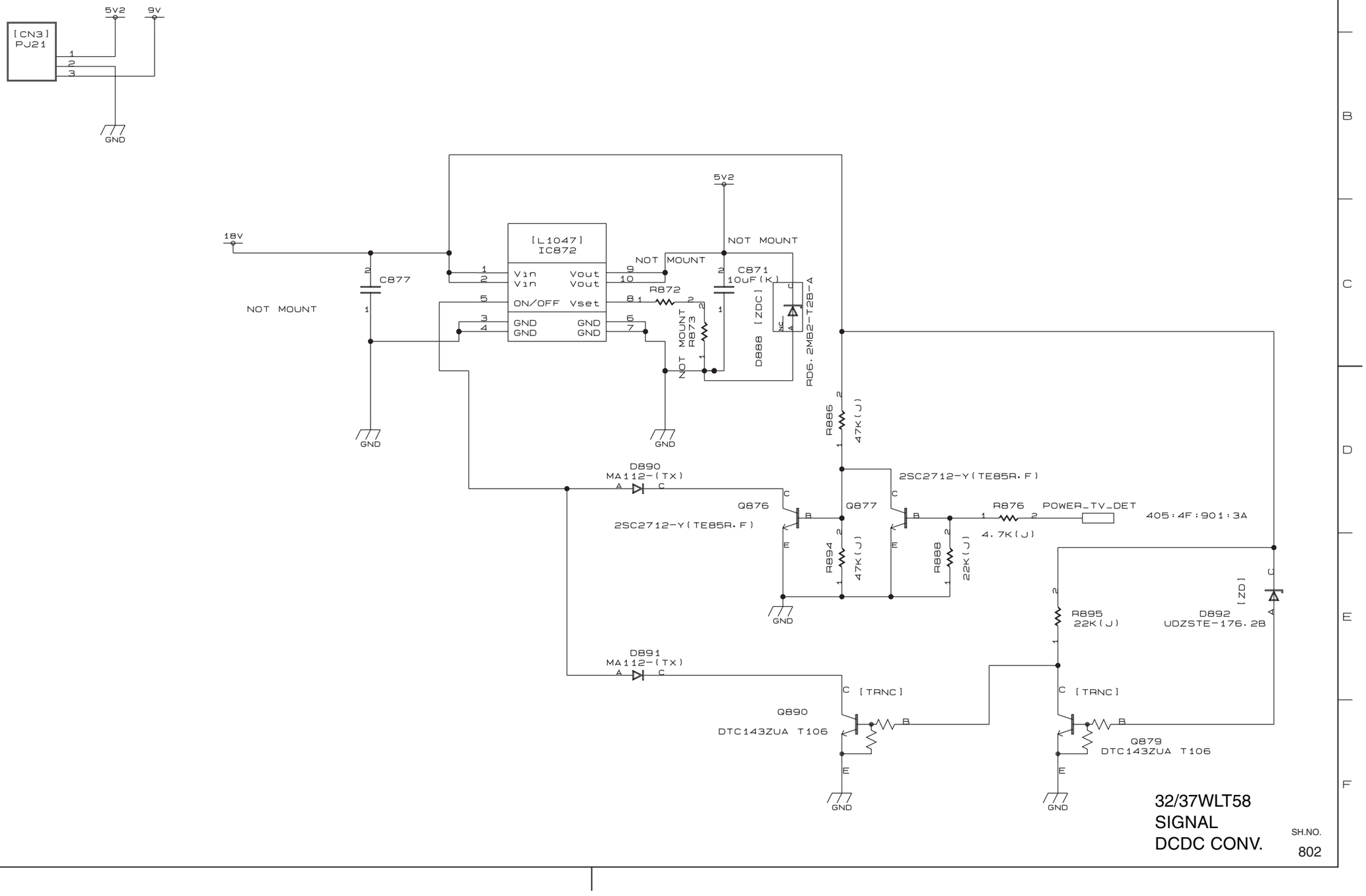
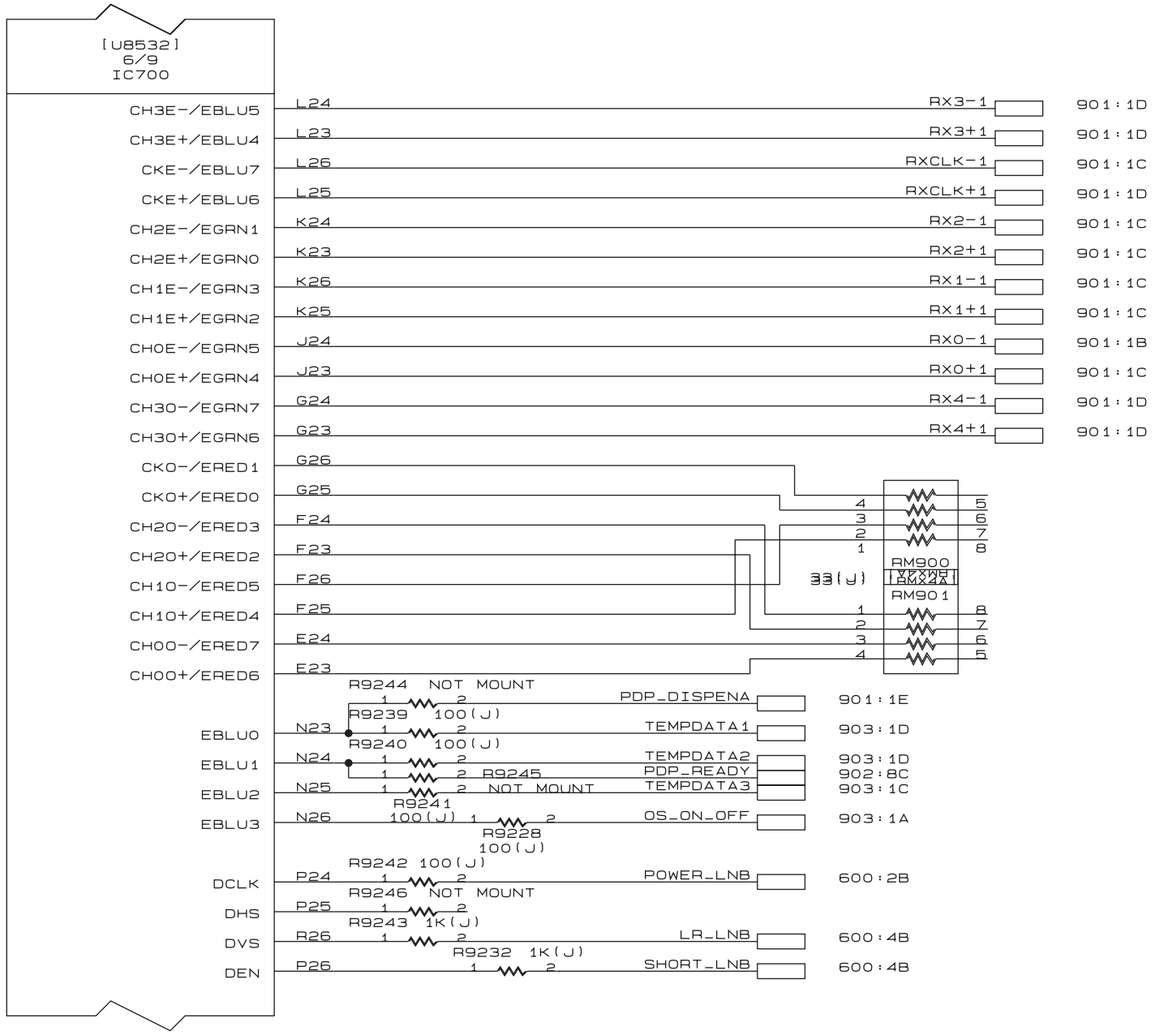
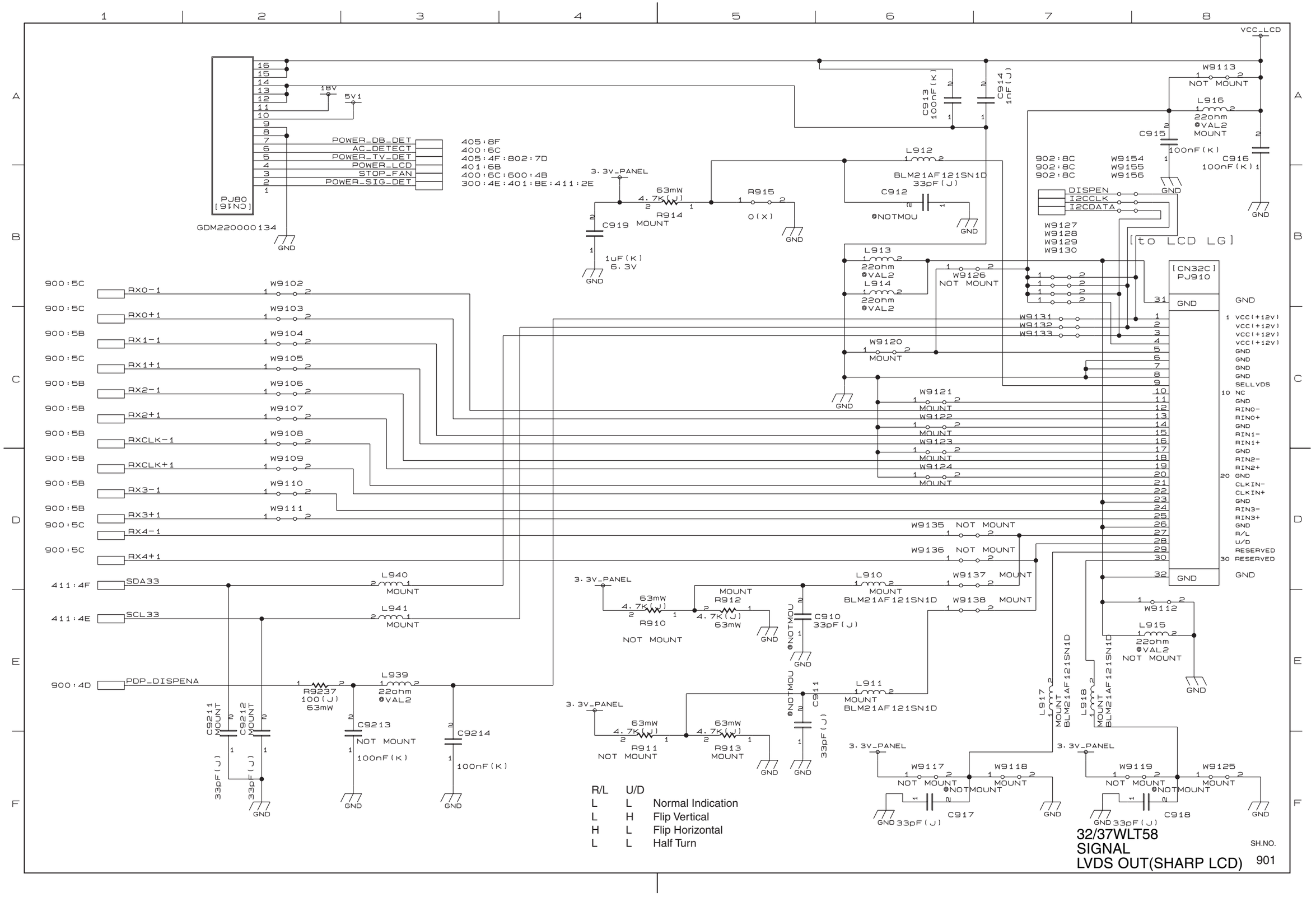
[RMX4A] RM719
[RMX4A] RM720
[RMX4A] RM721
[RMX4A] RM723
[RMX4A] RM725
[RMX4A] RM727
[RMX4A] RM729
[RMX4A] RM730
[RMX4A] RM731
[RMX4A] RM732
[RMX4A] RM733
150(J)
R731 150(J)
C791 100nF(K)
C792 100nF(K)
C793 100nF(K)
C795 100nF(K)
C797 100nF(K)
C799 100nF(K)
C7001 100nF(K)
C7003 100nF(K)
C7004 100nF(K)
C7005 100nF(K)
C7006 100nF(K)
+2.5V_DDR
R9220 10K(F) MOUNT
GND
FSVREF
REG. [L2995] IC703 LP2995MX
VDDQ
VREF
VSENSE
NC
VTT
[AVIN]
[PVIN]
[GND]
W9116
C788 1uF(K) 10V
C789 220uF(M) [CP] 16V
C790 10nF(K)
R9221 10K(F) MOUNT
C773 22uF(K) 4V MOUNT
/FSBAS
/FSCAS
/FSWE
/FSCS[1]
/FSCS[0]
FSBKSEL[0]
FSBKSEL[1]
FSDQS[1]
FSDQM[1]
FSDQM[0]
FSDQS[0]
FSDQS[3]
FSDQM[3]
FSDQM[2]
FSDQS[2]
FSCLK-
FSCLK+
FSCKE
[RMX4A] RM722
[RMX4A] RM724
[RMX4A] RM726
[RMX4A] RM728
R728 150(J)
R729 150(J)
R730 150(J)
C794 100nF(K)
C796 100nF(K)
C798 100nF(K)
C7000 100nF(K)
C7002 100nF(K)
32/37WLT58
SIGNAL
DDR TERMINATION
SH.NO.
704

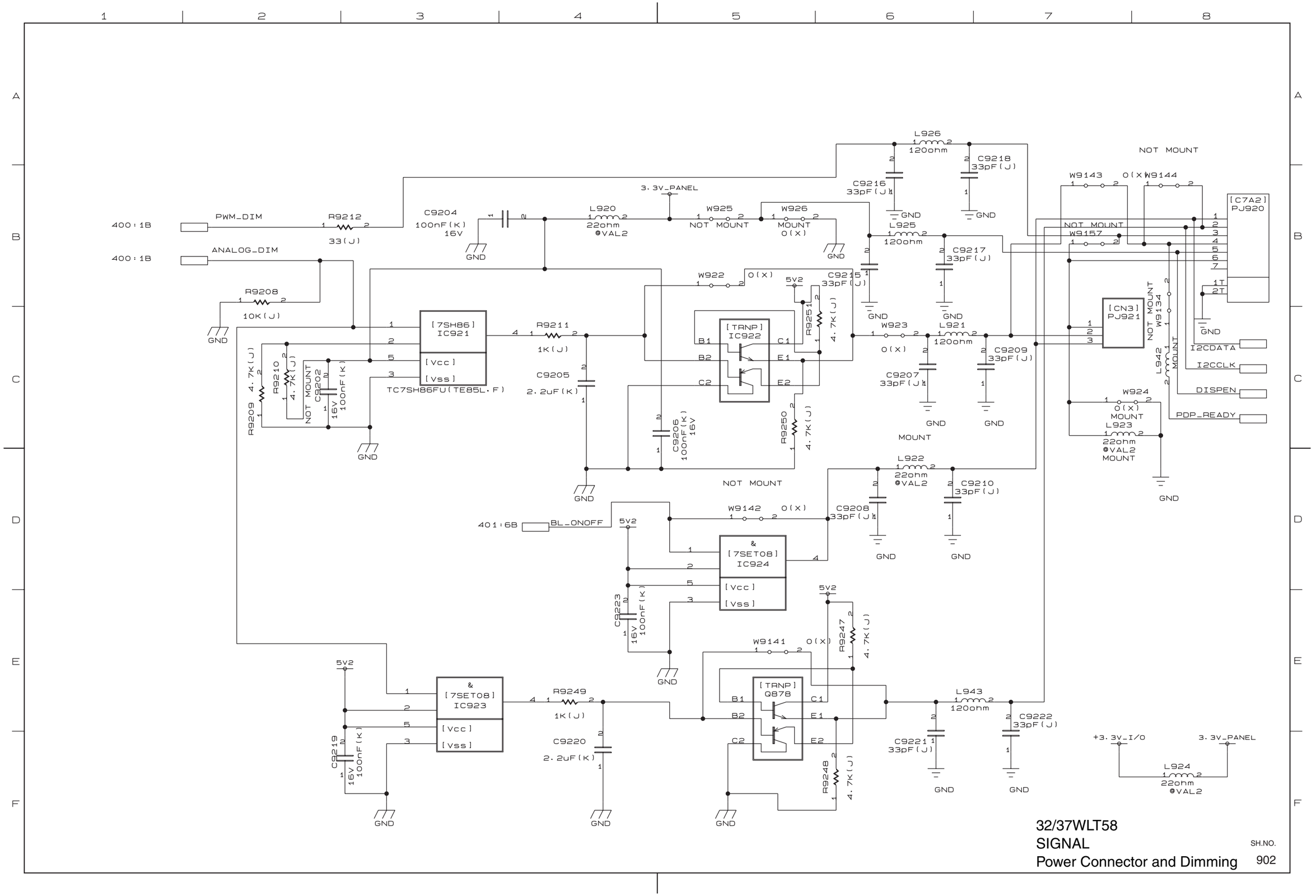

[CN3]
PJ21
1
2
3
5V2
9V
GND
18V
C877
NOT MOUNT
[L1047]
IC872
Vin
Vin
ON/OFF
GND
GND
Vout
Vout
Vset
GND
GND
R872
NOT MOUNT
R873
NOT MOUNT
C871
10uF(K)
D888 [ZDC]
RD6.2MB2-T2B-A
5V2
R886
47K(J)
D890
MA112-(TX)
2SC2712-Y(TE85R.F)
Q876
2SC2712-Y(TE85R.F)
Q877
2SC2712-Y(TE85R.F)
R876
POWER_TV_DET
405:4F:901:3A
4.7K(J)
R894
47K(J)
R888
22K(J)
R895
22K(J)
D892
UDZSTE-176.2B
[ZD]
D891
MA112-(TX)
[TRNC]
Q890
DTC143ZUA T106
[TRNC]
Q879
DTC143ZUA T106
32/37WLT58
SIGNAL
DCDC CONV.
SH.NO.
802



32/37WLT58
SIGNAL
LVDS OUT

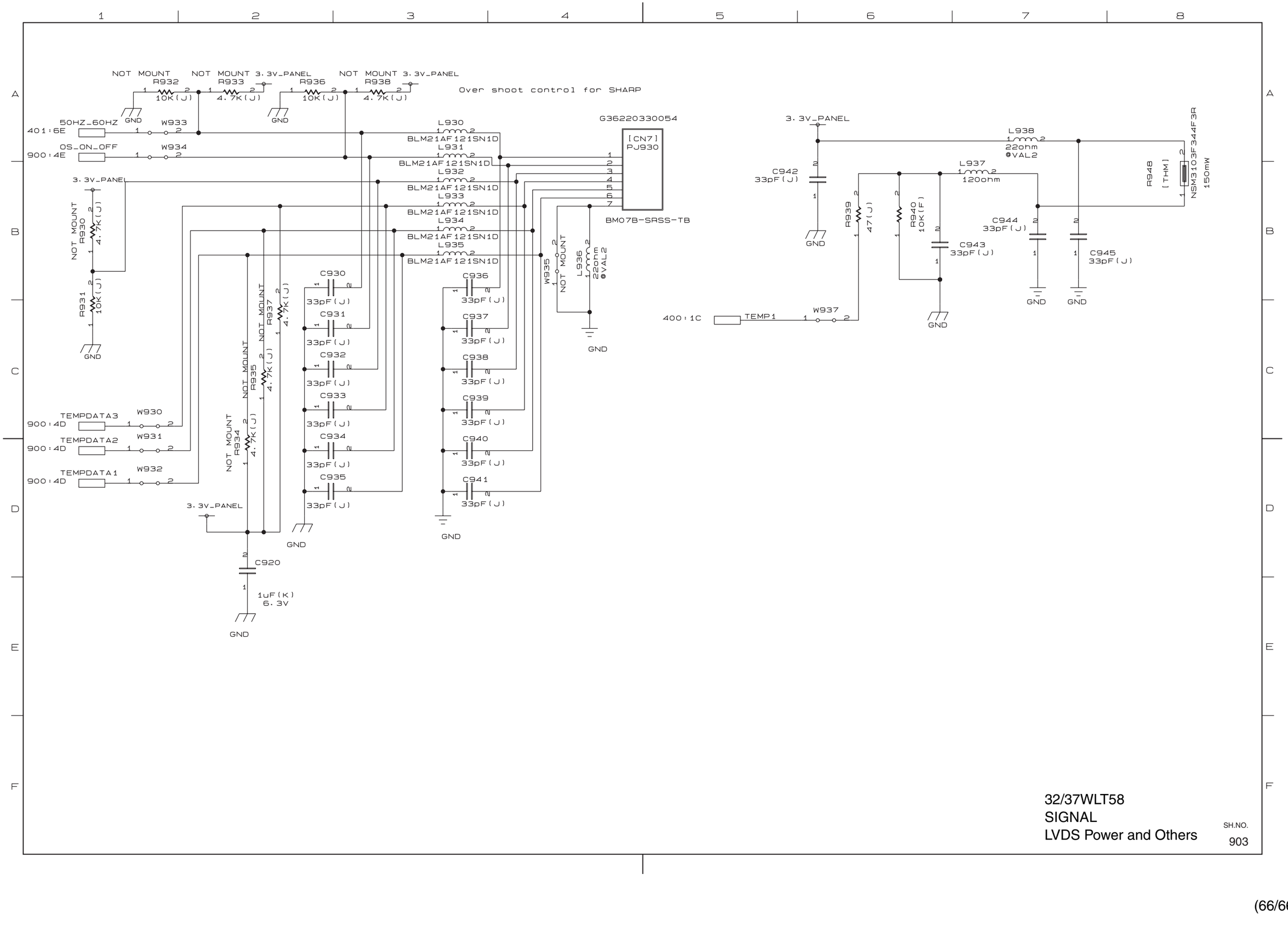
SH.NO.
900


PJ80 [CN16]
GDM220000134
POWER_DB_DET
AC_DETECT
POWER_TV_DET
POWER_LCD
STOP_FAN
POWER_SIG_DET
405:8F
400:6C
405:4F:802:7D
401:6B
400:6C:600:4B
300:4E:401:8E:411:2E
18V
5V1
3.3V_PANEL
63mW
4.7K(J)
R914 MOUNT
R915
0(X)
C919
1uF(K)
6.3V
C913 100nF(K)
C914 1nF(J)
L912
BLM21AF121SN1D
33pF(J)
C912
@NOTMOU
W9113 NOT MOUNT
L916
220ohm
@VAL2
MOUNT
C915 100nF(K)
C916 100nF(K)
902:8C
W9154
W9155
W9156
DISPEN
I2CCLK
I2CDATA
W9127
W9128
W9129
W9130
[to LCD LG]
L913
220ohm
@VAL2
L914
W9126 NOT MOUNT
[CN32C] PJ910
GND
VCC(+12V)
SELLVDS
NC
RIN0-
RIN0+
RIN1-
RIN1+
RIN2-
RIN2+
CLKIN-
CLKIN+
RIN3-
RIN3+
R/L
U/D
RESERVED
900:5C RX0-1 W9102
900:5C RX0+1 W9103
900:5B RX1-1 W9104
900:5C RX1+1 W9105
900:5B RX2-1 W9106
900:5B RX2+1 W9107
900:5B RXCLK-1 W9108
900:5B RXCLK+1 W9109
900:5B RX3-1 W9110
900:5B RX3+1 W9111
900:5C RX4-1
900:5C RX4+1
W9120 MOUNT
W9121 MOUNT
W9122 MOUNT
W9123 MOUNT
W9124 MOUNT
W9131
W9132
W9133
W9135 NOT MOUNT
W9136 NOT MOUNT
411:4F SDA33 L940 MOUNT
411:4E SCL33 L941 MOUNT
900:4D PDP_DISPENA
R9237 100(J) 63mW
L939 220ohm @VAL2
C9211 MOUNT 33pF(J)
C9212 MOUNT 33pF(J)
C9213 NOT MOUNT 100nF(K)
C9214 100nF(K)
R910 NOT MOUNT
R912 MOUNT 4.7K(J) 63mW
C910 33pF(J)
L910 MOUNT BLM21AF121SN1D
W9137 MOUNT
W9138 MOUNT
R911 NOT MOUNT 4.7K(J) 63mW
R913 MOUNT 4.7K(J) 63mW
C911 33pF(J)
L911 MOUNT BLM21AF121SN1D
W9112
L915 220ohm @VAL2 NOT MOUNT
L917 MOUNT BLM21AF121SN1D
L918 MOUNT BLM21AF121SN1D
W9117 NOT MOUNT
W9118 @NOTMOUNT MOUNT
C917 33pF(J)
W9119 NOT MOUNT
W9125 @NOTMOUNT MOUNT
C918 33pF(J)
GND
R/L U/D
L L Normal Indication
L H Flip Vertical
H L Flip Horizontal
L L Half Turn
32/37WLT58
SIGNAL
LVDS OUT(SHARP LCD)
SH.NO.
901



32/37WLT58
SIGNAL
Power Connector and Dimming

SH.NO. 902



32/37WLT58
SIGNAL
LVDS Power and Others

SH.NO.
903